United States Department of Agriculture Agricultural Research Administration Bureau of Entomology and Plant Quarantine

SCREENING TESTS FOR MATERIALS TO INCREASE THE EFFECTIVENESS

OF A DDT-PYRETHRUM FORMULAL

(Supplement to E-733)2

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Aerosols or sprays containing DDT knock down house flies and mosquitoes more slowly than do those containing pyrethrum. To accelerate this action pyrethrum may be added to the DDT formulation (Lindquist et al. 2, 3; Gersdorff and McGovran 1). Such a combination is reasonably satisfactory, but it appeared possible that its knock-down or lethal properties could be further increased by the addition of some other substance that was toxic in itself or that might activate one or both of the insecticides. Screening tests for determining such materials were initiated by the writers early in 1944 at the Orlando, Fla., laboratory of this Bureau. Methods emphasizing rapidity of testing rather than critical comparison between treatments were chosen, since only materials of outstanding value were of interest. No attempt was made to distinguish between synergism or activation. About 3,800 materials, mostly synthetic organic chemicals, were tested. Only a few of these materials showed any promise, although many were of some interest. It is believed, however, that sufficient precision in testing methods was attained so that most of the materials giving poor results in these tests may be eliminated from further consideration.

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<sup>2/</sup> United States Bureau of Entomology and Plant Quarantine. Results of screening tests with materials evaluated as insecticides, miticides, and repellents at the Orlando, Fla., laboratory, April 1942 to April 1947. U. S. Bur. Ent. and Plant Quar. E-733, 235 pp. 1947. Processed.

<sup>3/</sup> Corporal, A. U. S., assigned from Army Air Forces Committee on Aerial Dispersal of Insecticides at Army Air Forces Center, Orlando, Fla.

## Methods

When space-spray toxicity tests with DDT are being conducted, the residual property of the insecticide must be considered, and the insects must not be left in contact with the sprayed surfaces for long periods. For these tests a modified Peet-Grady testing procedure was adopted in which caged rather than free-flying insects were used.

Testing was carried on in 100-cubic-foot plywood chambers (5 by 5 by 4 feet inside dimensions) with 5-day-old house flies (Musca domestica L.) and 2-day-old common malaria mosquitoes (Anopheles quadrimaculatus Say). A standard formula consisting of 1 percent of DDT and 0.1 percent of pyrethrins in cyclohexanone was used. These percentages were varied from time to time to adjust the knock-down and kill of the standard to about 50 percent. Cyclohexanone was used as the diluent, because it dissolved many of the substances used, and it had no effect on the results obtained.

The relative effectiveness of a substance was determined by adding 10 percent of the test material to the standard formula. Each daily series of combinations was compared with the standard formula. However, some of the treatments were replicated on different days.

The spray was discharged into the chamber through a small circular opening in one side. This opening was kept closed when not in use. A DeVilbiss paint-sprayer nozzle operated at a pressure of 20 pounds per square inch by an electric air compressor was used. Air-float particles averaging about 18 microns in diameter were produced with this equipment. The nozzle was directed upward, and the spray was allowed to settle (2 minutes for house flies, and 2 minutes and 50 seconds for mosquitoes) before the insects were exposed. A total of 1.25 ml. of solution was used. The chambers were aired thoroughly between tests.

The insects were exposed in small cylindrical screen-wire cages by swinging the cages moderately on a wooden pendulum pivoted at the top of the chamber. The cages were in the center of the chamber at the lowest point of the arc. Because of the high dosage used, the house flies were exposed for only 30 seconds and the mosquitoes for only 10 seconds. After exposure the insects were transferred to clean cages, and knock-down counts were made after 10 minutes. The insects were then fed, watered, and held at a fairly constant temperature and humidity for 24 hours, when mortality counts were made. Two cages were exposed simultaneously (about 50 insects per cage), and two exposures were made. These four-cage tests were not usually replicated. Each test with a new mixture was compared with a standard within 4 hours. This method of testing is fairly rapid, and eliminates the time-consuming washing of the test-chamber walls that is necessary when free-flying insects are used.

It was determined that for mosquito knock-down and fly and mosquito mortality 40 percent or more above the standard constituted an outstanding increase in effectiveness, and 25 to 40 percent an increase in effectiveness. For fly knock-down the respective limits were set at 60 and 35

percent. Furthermore, the range 25 percent above to 40 percent below the standard represented no difference, but 40 percent or more below indicated a decrease in effectiveness. F. M. Wadley estimated the limits of experimental error to be within these figures. These limits were based upon analyses of variance of the results of a few tests that were replicated on different days. It was recognized that these estimates of error were not directly applicable to the results that were not included in the analyses, but they were the best available estimates, and it is believed that by making use of them as indicated above more reliable interpretations of the data could be made.

The following classes of effectiveness of the materials were established:

- Class 1. Combinations appearing to decrease effectiveness of the standard.
- Class 2. Combinations showing little or no difference from the standard.
- Class 3. Combinations that increased the effectiveness of the standard.
- Class 4. Combinations showing outstanding increases of effectiveness above the standard.

About 1,600 of the compounds fell into classes 3 or 4 in one or more of the four categories (fly knock-down and mortality, and mosquito knock-down and mortality). The chemical name and class rating for these compounds are presented in table 1. The listing is in alphabetical order, with item numbers corresponding to those given in E-733.

About 2,000 materials fell into class 2 in all four categories, and a few others into a combination of classes 1 and 2. Since they are of no interest as candidate materials, they are listed in table 2 by item numbers.

Of the compounds that showed some degree of effectiveness, only 5 were in class 4 in all categories, but 55 others were in class 4 in both fly and mosquito knock-down. Many more materials increased the effectiveness of the standard formula against mosquitoes than against house flies. Against mosquitoes 1,199 materials increased the knock-down sufficiently to fall in either class 3 or 4, whereas with flies only 175 chemicals were in these classes. Knock-down was considered the most important aspect of these tests, because mortality can usually be assured by increasing the amount of DDT or other toxicant.

About 250 of the compounds rated as class 2 on mosquito kill actually caused 100 percent mortality in the tests, but because they were tested at a time when the standard gave a mortality higher than 75 percent they could not be rated as better. About 150 of this group were in class 4 on mosquito

knock-down. Further testing will probably show that some of these compounds should have a higher rating on kill.

Most of the materials falling into class I were in that class in only one category and in class 2 in the others; so their low rating may have been due merely to extreme sampling variation. Ten compounds were in class I in both knock-down and kill of mosquitoes, and some of these may be incompatible chemically or physically in the spray mixture.

The following groups each contained a number of effective materials: Thiocyanic acid derivatives (mostly esters), glutaric acid derivatives, amides, cinnamic acid derivatives, and compounds containing the methylene-dioxyphenyl group. However, many of the ineffective materials also belong in these groups.

Additional testing of the better compounds will be required to select those of possible value as synergists or as toxicants.

## Summary

About 3,800 materials were tested in an effort to find some that would increase the knock-down and lethal properties of a standard spray formula containing 1 percent of DDT and 0.1 percent of pyrethrins in cyclohexanone. Tests were conducted in 100-cubic-foot chambers against house flies (Musca domestica L.) and common malaria mosquitoes (Anopheles quadrimaculatus Say). More than 2,000 materials gave no appreciable increase in effectiveness when 10 percent of a material was added to the standard formula. Of the remainder only five, namely, N,N-diethyl-alphacyclohexoxyacetamide, 1-(3,1-dioxymethylenephenyl)-2-methyl-1,3-propanediol methylene ether, N,N-dipropyl-3-hydroxy-3-methylvaleramide, allyl ester of N,N-dipropylsuccinamic acid, and ethyl ester of 6-iso-propyl-2-methyl-1-oxo-2-cyclohexene-1-carboxylic acid, gave outstanding increases in both fly and mosquito knock-down and kill. More materials gave an appreciable increase in knock-down and kill of mosquitoes than of house flies.

## Literature Cited

- (1) Gersdorff, W. A., and McGovran, E. R. 1944. Laboratory tests on houseflies with DDT in contact sprays. Jour. Econ. Ent. 37: 137.
- (2) Lindquist, A. W., Schroeder, H. O., and Enipling, E. F. 1945.

  Concentrated insecticides—preliminary studies of the use of concentrated sprays against houseflies and mosquitoes. Soap and Sanit. Chem. 21(7): 109, 111, 113, 119.
- (3) Lindquist, A. W., Travis, B. V., Madden, A. H., Schroeder, H. O., and Jones, H. A. 1945. DDT and pyrethrum aerosols to control mosquitoes and houseflies under semi-practical conditions.

  Jour. Econ. Ent. 38: 255-257.

Table 1.—Class ratings of compounds that showed some degree of effectiveness when added to a standard spray formula containing DDT and pyrethrum.

Item	1		: House	flies :	Mosmait	008
No.		Chemical		lown:Kill:		
8		dioctyl mercaptal	2	2	并	2
12	Acetic acid,	q-allyl-p-cresol ester	2		3 3 4	2 3 2 2 3
13	Acetic acid,	o-allylphanyl ester	2		3	2
17	Acetic acid,	benzhydryl ester	5		4	3
36 39 49	Acetic acid,	3-chloro-1-butanol ester	2		3 2 4	2
39	Acetic acid,	3-chloro-2-xenyl ester	2	3	2	2
	Acetic acid, (trans)	1,2-cyclohexanediol monoes	ter 2	3	74	3
54	•	decamethylene diester	2	2	4	2
56		p,p!-dichlorobenzhydryl es			14	2
54 56 61		diethylene glycol benzhydr			3	2
64	Acetic acid.	diethylene glycol monoeste	r 2	2	2	3
67		5,5-dimethylcyclohexanedio			14	3 2
74		dodecanediol monoester	2	2	4	2
75		n-dodecyl ester	2	_	14	2
80		2-ethyl-2-butyl-1,3-propan	diol 2		74	4
82		ethylene glycol benzhydryl	2	3	并	2
88		furfuryl ester	2	4	2	
90		1-fury1-2,2-dimethylpropyl		•	7	4
96		1,6-hexanediol diester	2	2	3	2
99		2-(2-(2-hydroxyethoxy)-	2	2	3	2
"	ethoxy)ethy		_	-	-	_
100	Acetic acid,	l-hydroxymethylethynyl-l-	2	2	4	2
105	Acetic acid,	beta-(2-p-menthanyl)thioeth	hyl 2	2	3	2
110		p-methoxyphenethyl ester	2		2	7
121		myristyl ester	2		2	3
122		alpha-naphthyl carbinol es		7	4	
125		p-nitrophenyl ester	ter 3	2	7	2
126		1,9-nonanediol diester	2	3 3 2	<del>با</del> 5	5
133		2-octynyl ester	2	2	7	2
134		3-octynyl ester	2		3 3 3	5
141		1-phenyl-1,3-propanediol	2		2	4
	diester	- Imena 1 ) - hr obstractor	2		)	4
143		a-nronenul-n-everal actor	2		2	7
146		o-propenyl-p-cresol ester o-propyl-p-cresol ester	2		2	3
149		resacetophenone diester	2	4	2	2
150		resorcinol diester	2	2	<u> </u>	2
190	wearing acid,	resolcinor diestel	2	2	4	2

	1 (Continued)			
Item		louse flies	: Mosquitoes	
No.	: Chemical :Kno	ck-down:Kil	l:Knock-down:K	111
154	Acetic acid, styrene glycol diester	2	7	0
160	Acetic acid, 1,2,3,4-tetrahydro-2-	2	3 2	2 4
100	naphthyl ester	<	~	4
162	Acetic acid, 2,2°-thiodiethanol diester	2	4	2
166	Acetic acid, 2-(m-tolyl)cyclohexanol ester		2	ح
171	Acetic acid, trimethylene diester	3 2 2 3 2 2 2 4 2		2
177	Acetoacetanilide	2 2	2	Ji
180	Acetoacetic acid, allyl ester	2 4	2	h
182	Acetoacetic acid, benzyl ester	2	1	3
183	Acetoacetic acid, butoxyethyl ester	2	3	4
187	Acetoacetic acid, cyclopentyl ester	2	3	4
189	Acetoacetic acid, ethoxyethoxyethyl ester	2	3	3
190	Acetoacetic acid, ethoxyethyl ester	2	ź	4
193	Acetoacetic acid, 2-ethylhexyl ester	2 2 2 2 2	3	2
196	Acetoacetic acid, geranyl ester		3	3
197	Acetoacetic acid, glycol diester	5	3	3
	Acetoacetic acid, heptyl ester	2	2	3
139	Acetoacetic acid, hexyl ester	2	2	3
202	Acetoacetic acid, 2-methylcyclohexyl ester	2	2 2 4 3 3 3 2 2 2 2 2 3 4	4
203	Acetoacetic acid, 3-methylcyclohexyl ester	2	2	4
204	Acetoacetic acid, 4-methylcyclohexyl ester	2	3	4
206	Acetoacetic acid, phenethyl ester	2	14	2443443423333444 323242324
210	4-Acetoacetylmorpholine	2	3 2 3 2	2
225	Acetomesitylene	2	2	3
227	2-Aceto-1-naphthol	2 2	3	2
231	Acetonedicarboxylic acid, dimethyl ester	2	2	4
239 240	Acetophenone glycerol	2 2	14	2
240	Acetophenone oxime	2 2	并	3
249	Acetoveratrone	2	3	2
252	alpha-Acetoxyacetophenone	2	<u> </u>	3
267	2-Acetoxycyclohexanone oxime	2	2	2
268	1-Acetoxycyclohexenecarboxylic acid,	2	2	4
269	tetrahydrofurfuryl ester l-Acetoxycyclopentanecarboxylic acid,	4 2	3	4
203	tetrahydrofurfuryl ester	7 6	)	т
270	N-(2-Acetoxyethyl)acetanilide	2	14	7
272	3-Acetoxy-4-ethyloctanoic acid, allyl ester	3 2	14	3
274	3-Acetoxy-4-ethyl-4-octenoic acid,	2 2	4	2
-1.	methyl ester		·	_
276	N-beta-Acetoxyethyl-1,2,3,6-tetrahydro-	2	4	2
-,-	phthalimide			
278	1-Acetoxyindane	2	2	4
280	N-(1-(Acetoxymethyl)-1-methyl)ethyl	2		4
	acetamide			
281	2-Acetoxymethy1-2-methy1-5,5-pentamethy1-	2 2	2	3
	ene-1,3-dioxolan-4-one			
282	N-(1-(Acetoxymethyl)propyl)acetamide	2		4
285	alpha-Acetoxypropionamide	2	2	4

Table 1 (Continued)

74		A 17	C2 1	11	
Item		: House		Mosquite	
No.	: Chemical	: Anock-ac	WILL KILL:	Knock-down	J:KILL
293	alpha-Acetoxypropionic acid, p-tert- butylphenyl ester	2		14	2
328	2-Acetoxyvaleric acid	2		4	3 3 3
345	alpha-Acetylglutaric acid, diethyl este			2	3
349	N-Acetyl-N-methylanthranilic acid, methester		2	2	3
355	gamma-Acetyl-gamma-methylpimelonitrile	Ъ.	3	Ъ.	2
359	Acetyl-alpha-oximinoacetoacetic acid, ethyl ester	2		7+	7
360	Acetyl o-phenetidine	2	2	3	2
364	1-Acetylpiperidine-3-carboxylic acid, ethyl ester	2		3	3
372	Acetyl salicylic acid	2	3	2	3
373	Acetylsalicylic acid, cyclohexyl ester	2		4	3 2 4
376	Acetylsalicylic acid, iso-propyl ester			并	4
379	N-Acetyl-1,2,3,4-tetrahydroquinaldine	2	2	2	
385	alpha-Acetyl-gamma-vinylbutyrolactone	2		2	3
387	Aconitic acid, tributyl ester	2	2	3	4
388	Aconitic acid, triethyl ester	2		2 3 3 4	2
390	Aconitic acid, tri-n-propyl ester	2 2 2 2 2 2 2 2		Į.	2
458	Adipic acid, diallyl ester	2	2	14	2
460	Adipic acid, di-n-butyl ester	2	2	并	2 2 2 3 4
469	Adipic acid, di-n-propyl ester	2	2	4	2
470	Adipic acid, di-iso-propyl ester	2		4	2
473	Adipic acid, monopropyl ester	2		4	3
474	Adipic acid, mono-iso-propyl ester	2	3	4	Ţ
475	Adipic acid, ditetrahydrofurfuryl ester	. 2	3 2	计	2
478	Adiponitrile	2		Ъ	2 2
431	Alcohol byproduct from hydrogenation of methyl 2-naphthyl ketone	2	2	3	2
508	2-Allylcyclohexanone oxime	2		并	14
511	Allyl 2-cyclohexylphenyl ether	2	2	3	2
512	Allyl 4-cyclohexylphenyl ether	2	2	3	2
513	Allyl-1-ethoxyethylmalonic acid, diethy ester	1 2		3	3
516	N-Allylhexahydrophthalimide	2		4	3
524	N-Allyl-4-methyl-1,2,3,6-tetrahydro- phthalimide	2	2	3	3
526	o-Allyloxybenzaldehyde	2		3	3
	beta-Allyloxy-alpha-phenylethyl alcohol			3	2
537	N-Allylphthalimide	2	2		3 4 3 4
539	N-Allyl-1,2,3,6-tetrahydrophthalimide	2	2	3	3
563	p-Aminobenzoic acid, n-amyl ester	2	_	2	Ţ
564	p-Aminobenzoic acid, iso-amyl ester	2		2	4
566	p-Aminobenzoic acid, iso-butyl ester	2	3	2	
582	1-Amino-2, 3 -dihydroxypropane	2	3	<u> </u>	2
609	N-Amylacetamide	2	3	2	2 2
610	N-n-Amylacetanilide	14	3 3 3	3	4
720		·			

Table 1 (Continued)

Table	1 (Continued)				
Item		House f	lies :	Mosquite	es
No.	: Chemical	Knock-down	:Kill:	Knock-down	:Kill
617	tert-Amylbenzene	2	3	2	2
619	iso-Amyl benzyl ether	2	3 2	3	5
621	N-n-Amyl-n-butyranilide	4	4	Ţ	2
622	N-iso-Amyl-n-butyranilide		2	7	2
626	alpha-n-Amylcinnamaldehyde	2	2	7	2
635	tert-Amyl diphenylene sulfide	3 2 2 2	<b>C</b>	3 3 3 4	2 2 2 2
636	x-tert-Amyl-diphenyl ether	2	2	7	2
637	N-Amyl-3,6-endomethylenehexahydrophthal-	3	2	3	2
	imide		*		
638	iso-Amylethylmalonic acid, diethyl ester	2		jŧ	2
641	5-tert-Amylfuroic acid, n-propyl ester	2		2	2 3 4
643	(1-Amylhexylidene) cyanoacetic acid,	2	2	4	4
	ethyl ester				
645	2-Amyl-3-hydroxybutyric acid, ethyl ester	r 2	2	4	2
647	N-(n-Amyl)imide of 1,2-dicarboxy-3,6-	3	2	3	2
·	endomethylene-4-cyclohexene				
650	N-Amyl-4-methylhexahydrophthalimide	并	4	4	2
651	1-Amyl-2-methyl-5-oxo-2-pyrroline-3-	并	2	2	2
	carboxylic acid, ethyl ester				
652	N-Amyl-1-methyl-1,2,3,6-tetrahydro-	jt	4	74	2
(=):	phthalimide			1.	
654	Anyl beta-naphthyl ether	2	2	4	2
657	N-Amyl-alpha-(x-nonenyl)succinimide	jt	2 4	2 3 2 3 4 2 4	23234222
658	o-n-Amyloxybenzaldehyde	2	4	3	2
659 662	o-iso-Amyloxybenzaldehyde	2		2	3
662	1-n-Amyloxyindane	2	2	3	4
666	1-(o-Amylphenoxy)-2,3-cpoxypropane	2		3	2
674	N-n-Amyl phthalimide	2	2	4	2
675	N-iso-Amylphthalimide	4	2 3 2 2	2	2
677	N-n-Amylpropionanilide	4	3	4	4
678	N-iso-Amylpropionanilide	2	2	3 2 3	4
679	N-(n-Amyl) saccharin	2	2	2	4
681	1-Amyl-1,4,5,6-tetrahydro-2-methyl-6-	2		3	4
	oxonicotinic acid, methyl ester				
705	Anisaldehyde diethyl acetal	2	2	2	3
706	Anisaldehyde glycerol acetal		_	2	3
708	Anisic acid, n-amyl ester	2	2	<u>j</u>	2
709	Anisic acid, n-butyl ester	2 2	2	4	2
710	Anisic acid, iso-butyl ester	2	2	14	2
	· · · · · · · · · · · · · · · · · · ·	2	2	14	2
713	Anisic acid, n-propyl ester	2	Fine .	Ť	2
714	Anisic acid, iso-propyl ester	2	7		2 2
719	Aniscle	2	3	2 2 14	2
721	Anisoylacetic acid, ethyl ester	2		. 1	3
723	beta(p-Anisoyl)propionic acid, allyl este	r 2			
724	beta-(p-Anisoyl)propionic acid, methyl	2		3	4
	ester				
738	Anthranilic acid, ethyl ester	2	S	3	2
738 746	Anthraquinone blue, AB base	2	2	3	2
	•				

Table 1 (Continued)

Item	·	Heres	flion	Mosqui	t 0 0 5
		: House :Knock-do			
No.	: Chemical	* Anock-Go	MIT! VITIE	Anock-Go	MI: Al I
761	Aroclor #1260 (chlorinated diphenyl)	. 2	2	2	7
	Astrotone BR 10%	2	2	Ħ	3 2
778		2	<u> </u>	4	2
785	Azelaic acid, diethyl ester	2			2
787	Azeleic acid, dimethyl ester	2	2	)†	5 5 5 5
790	Azelaic acid, di-n-propyl ester	2	2	)†	2
797	Azoxybenzene	2	2	74	5
801	Benzalacetoacetic acid, ethyl ester	2	2	3	4
804	Benzal acetonylacetone	2	2		2 14
805	Benzal acetophenone	2	2	3 3 4	4
806	Benzal acetylacetone	2		3	3 3 2
809	Benzalcyanacetic acid, ethyl ester	2	2		3
812	Benzaldehyde 2-nitro-2-ethyl-1,3-propane	- 2	2	4	2
	diol acetal				
813	Benzaldehyde 2-nitro-2-methyl-1,3-propen	e- 2		4	3
	diol acetal				
817	Benzal-9,10-dihydroxystearic acid, butyl	2	2	4	Ħ
	ester				
819	delta-Benzallevulinic acid, methyl ester	2		2	3
820	delta-Benzallevulinic acid, n-propyl est		2	2	3
831	Benzene hexachloride, crude product said		4	2	2
	contain 10-12% gamma isomer	_		_	_
845	Benzenesulfonic acid, methyl ester	2		4	4
859	Benzhydrol	2		4	
860	Benzhydryl iso-amyl ether	2		2	33223242323
861	Benzhydryl n-amyl thioether	2		4	2
863	Benzhydryl ethylene glycol monoether	2	2	4	2
864		2	2		~
865	Benzhydryl ethyl ethylene glycol diether	2		3 4	2
	Benzhydryl 2-ethylhexyl ether		١,		2
867	Benzhydryltoluene	2	4	2	4
869	Benzil	2	2	7	5
879	Benzoic acid, o-allyl-p-cresol ester	2	_	<b>J</b> †	3
884	Benzcic acid, benzyl ester	2	2	3 2	2
892	Benzoic acid, iso-butyraldehyde oxime est	ter 2			3
901	Benzoic acid, p-cresyl ester	2	2	<del>1</del>	3
915	Benzoic acid, ethylene glycol monoester	2	2	4	2
916	Benzoic acid, 2-ethyl-2-hexenal oxime est			3	2
919	Benzoic acid, 1-ethynylcycloheryl ester	2		4	2
920	Benzoic acid, furfuryl ester	2		<del>11</del>	3
922	Benzoic acid, guaiacol ester	2		4	3
923	Benzoic acid, n-heptyl ester	2	2	4	ź
924	Benzoic acid, 2-heptyl ester	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_	4	32223322422223
928	Benzoic acid, 2-hydroxypropyl ester	2		4	4
929	Benzoic acid, isoeugenyl ester	2	4		2
934	Benzoic acid, 5-methyl-2-hexyl ester	2	,	2 14	2
929 934 941	Benzoic acid, 2-octyl ester	2	2	4	2
942	Benzoic acid, pentanediol-1,5 diester	2	Ĭ	2	2
949	Benzoic acid, 1,3-propanediol monoester	2	2	3	7
ノマフ	persone actr's r' )-brobattentor momoastar.	2	_	)	)

Table 1 (Continued)

Item		: House	flies	Mosqui	+
		:Knock-do			
No.	? CHEMICAI	* KHOCK-UC	MIT: VITI	Anock-ao	WI: KIII
973	2-Benzoxycyclohexanol .	2	3	7	4
994	Benzoylmesitylene	2 2	)	2	
999	N-Benzoylpiperidine	2		2	7
1001	beta-Benzoylpropionic acid, allyl ester	2 2	2	3 2 4	2
1005	Benzoylpyruvic acid, ethyl ester	2	2		7
1012	delta-Benzoylvaleric acid, iso-propyl est		2	2	2
1012	Benzyl <u>n</u> -butyl sulfone	2	2	2	),
1024	Benzyl carboallyloxymethyl sulfone	2222222222222	2	3 3 2 2	234324324
1029	Benzyl carbopropoxymethyl sulfone	2	2	7	2
	Benzylcyanoacetic acid, ethyl ester	2		4	),
1033		2		2	7
1034	1-Benzylcyclohexanol-1	2	2	74	3
1035	2-Benzylcyclohexanol	2	2	4	4
1036	4-Benzylcyclohexanol	۷ .	2	4	2
1038	Benzyl ethylene glycol diether	2	ح	4	2
1038a	2-Benzyl-5-sthyl-6-propyl-1,3-dioxane	2		4	2 3 2 2 4
1043	Benzyl ethyl sulfone	2	-	4	2
10/1/1	Benzyl eugenyl ether	2	3 3 2		2
1046	N-Benzyl glycine, butyl ester	2	3	74	7
1049	Benzylidenemalonic acid, diallyl ester	3	2	<del>ј</del>	4
1051	Benzylidenemalonic acid, dimethyl ester		2	4	4
1052	Benzylidenemalonic acid, dipropyl ester	۲ 2	2		
1053	Benzylidenemalonic acid, di-iso-propyl	4	2	jt	4
0.050	ester	0	-		-
1060	Benzyl alpha-naphthyl ether	2 2 2 2	3 2	2	5
1061	Benzyl beta-naphthyl ether	2	2	2	3
1071	Benzyl 1-phenylethyl ketone	2		2 3 4	2
1078	O-Benzylsalicylic acid, methyl ester	2	0	2	2
1080	Benzyl sulfide	2	5		ې
1082	N-Benzyl-1,2,3,6-tetrahydrophthalimide	2	2	<u>4</u>	3322342223
1085	Benzyl triethylphenyl ketone	2 2			2
1089	Benzyl tri-iso-propylphenyl ketone	2		3	2
1091	Bibenzyl	2	0	2	2
1096	cis-Bicyclo-(2.2.1)heptene-2,3-dicarbox-	2	2	2	)
1	ylic acid, dibutyl ester	0		4	7
1114	N,N-Bis-(2-acetoxyethyl)acetamide	2		2	3
1115	N-Bis(beta-acetoxyethyl)alpha-acetoxy-	2		2	)
	propionamide	0		4	7
1116	N-(1,1-Bis(acetoxymethyl)propyl)acetamide	2 14	0		3 2 2 3 2
1120	Bis(beta-carboallyloxyethyl)ether	4	2	<u>ل</u> ا 2	2
1123	Bis(beta-carboethoxyethyl) ether		2		2
1131	Bis-(3-chloropropyl)formal	2	2	2	2
1161	3-Bromoacenaphthene		2	2 3 2	2
1163	Bromoacetic acid, butyl diethylene glycol	3	2	2	
	ether ester		_	0	0
1171	o-Bromoanisole	2	3	2	2
1181	p-Bromobenzoic acid, ethyl ester	2		2 3 4	2 3 4
1186	Bromo-bis(p-chlorophenyl)methane	2			
1205	1-Bromo-4-methoxynaphthalene	2		3	并

Table 1 (Continued)

	a (our case our)				
Item			flies		
No.	: Chemical	:Knock-do	wn:Kill:	knock-dor	wn: Kill
761	Annalog #1360 (ablaminated disharm)	2	2	0	~
	Aroclor #1260 (chlorinated diphenyl)	5	2	2 4	3 2
778	Astrotone BR 10%	2	2		2
785	Azelaic acid, diethyl ester	2	4	4	2
787	Azelaic acid, dimethyl ester	2	2	4	2
790	Azelaic acid, di-n-propyl ester	2	2	4	2
797	Azoxybenzene	2	2	4	2 2 4
801	Benzalacetoacetic acid, ethyl ester	2	2	3	4
804	Benzal acetonylacetone	2 2 2 2 2 2 2	2		2 4 3 3 2
805	Benzal acetophenone	2	2	3	4
806	Benzal acetylacetone	2		3	3
809	Benzalcyanacetic acid, ethyl ester	2	2		3
812	Benzaldehyde 2-nitro-2-ethyl-1,3-propane	- 2	2	4	2
	diol acetal				
813	Benzaldehyde 2-nitro-2-methyl-1,3-propen	e- 2		4	3
	diol acetal				
817	Benzal-9,10-dihydroxystearic acid, butyl	2	2	4	јţ
	ester				
819	delta-Benzallevulinic acid, methyl ester			2	3
850	delta-Benzallevulinic acid, n-propyl est		2	2	Ţţ
831	Benzene hexachloride, crude product said	to 2	4	2	2
	contain 10-12% gamma isomer				
845	Benzenesulfonic acid, methyl ester	2		并	4
859	Benzhydrol	2		4	3
860	Benzhydryl iso-amyl ether	2		2	3
861	Benzhydryl n-amyl thioether	2		4	3 3 2 2 3 2 4
863	Benzhydryl ethylene glycol monoether	2	2	14	2
864	Benzhydryl ethyl ethylene glycol diether	. 5		3	3
865	Benzhydryl 2-ethylhexyl ether	2		3	2
867	Benzhydryltoluene	2	4	2	4
889	Benzil	2	2	4	2
879	Benzoic acid, o-allyl-p-cresol ester	2	-	4	7
884	Benzeic acid, benzyl ester	2	2		2
892	Benzoic acid, iso-butyraldehyde oxime est	_	top	3 2	2 3 2 3
901	Benzoic acid, p-cresyl ester	2	2	4	
915	Benzoic acid, ethylene glycol monoester	2	2	4	2
916	Benzoic acid, 2-ethyl-2-hexenal oxime est		٢		2
919	Benzoic acid, 1-ethynylcyclohexyl ester	2		3	2
920	Benzoic acid, furfuryl ester	2		);	~
922	Benzoic acid, guaiacol ester	2		14 14	2
		2	2	4	2
923 924	Benzoic acid, <u>n</u> -heptyl ester Benzoic acid, <u>2</u> -heptyl ester	2 2 2 2 2	2	4	2
928	Benzoic acid, 2-hydroxypropyl ester	2		4	);
920		2	4		4
ולדם	Benzoic acid, isoeugenyl ester Benzoic acid, 5-methyl-2-hexyl ester	2	-+	2	2
929 934 941		2	0	4	2
942	Benzoic acid, 2-octyl ester Benzoic acid, pentanodial-1 E diagtor	2	2 4		2
942	Benzoic acid, pentanediol-1,5 diester	2	2	2	32223322422223
フマフ	Benzoic acid, 1,3-propanediol monoester	2	2	3	3

Table 1 (Continued)

Item		: House	flies	Mosqui	toes
No.				Knock-do	
710.9	• VIOLITICAL	· RHOCK-U	) MTT - TT - TT -	Anoca-do	MII • VIII
973	2-Benzoxycyclohexanol	2	3	7	4
994	Benzoylmesitylene	2 2 2 2	J	3 3 2 4	
999	N-Benzoylpiperidine	2		2	7
1001	beta-Benzoylpropionic acid, allyl ester	2	2	ั้น	Zí.
1005	Benzoylpyruvic acid, ethyl ester	2	_		7
1012	delta-Benzoylvaleric acid, iso-propyl est		2	3 3 2 2	9
1024	Benzyl n-butyl sulfone	2	2	2	й
1025	Benzyl carboallyloxymethyl sulfone	2	2	2	7
1029	Benzyl carbopropoxymethyl sulfone	2	_	4	2
1033	Benzylcyanoacetic acid, ethyl ester	2 2 2 2 2		14	23432432434
1034	1-Benzylcyclohexanol-1	2		2	3
1035	2-Benzylcyclohexanol	2	2	4	Ĭ
1036	4-Benzylcyclohexanol	2	_	4	4
1038	Benzyl ethylene glycol diether	2	2	14	2
1038a	2-Benzyl-5-ethyl-6-propyl-1,3-dioxane	2	_	4	7
1043	Benzyl ethyl sulfone	5		4	2
1043		2	7	4	2
1046	Benzyl eugenyl ether	2	3 3 2	4	2 3 2 2 4
1049	N-Benzyl glycine, butyl ester Benzylidenemalonic acid, diallyl ester	7	)	<u> </u>	4
		3 <b>2</b>	2	4	4
1051	Benzylidenemalonic acid, dimethyl ester	2	2	4	4
1052	Benzylidenemalonic acid, dipropyl ester	4	2	ŭ	4
1053	Benzylidenemalonic acid, di-iso-propyl ester		2	7	7
1060	Benzyl alpha-naphthyl ether	2	7	2	7
1061	Benzyl beta-naphthyl ether	2	3	2	332234222
1071	Benzyl 1-phenylethyl ketone	2	_	3	2
1078	O-Benzylsalicylic acid, methyl ester	2		3 3 4	2
1080	Benzyl sulfide	2	2	杠	3
1082	N-Benzyl-1,2,3,6-tetrahydrophthalimide	2	2	2	Ĭ.
1085	Benzyl triethylphenyl ketone	2	_	4	2
1089	Benzyl tri-iso-propylphenyl ketone	2			2
1091	Bibenzyl	2		3	2
1096	cis-Bicyclo-(2.2.1)heptene-2,3-dicarbox-	2	2	2	3
1090	ylic acid, dibutyl ester	_	_	_	
1114	N, N-Bis-(2-acetoxyethyl)acetamide	2		4	3
1115	N-Bis(beta-acetoxyethyl)alpha-acetoxy-	2		2	3
	propionamide	_			
1116	N-(1,1-Bis (acetoxymethyl)propyl)acetamide	2		4	3
1120	Bis(beta-carboallyloxyethyl)ether	14	2	2	3 2 2 3
1123	Bis(beta-carboethoxyethyl) ether	4	2	4	2
1131	Bis-(3-chloropropyl)formal		2		3
1161	3-Bromoacenaphthene	2	2	2 3 2	ź
1163	Bromoacetic acid, butyl diethylene glycol		2	ź	
1105	ether ester		_		
1171	o-Bromoanisole	2	3	2	2
1181	p-Bromobenzoic acid, ethyl ester	5		2 3 4	2 3 4
1186	Bromo-bis(p-chlorophenyl)methane	2		4	
1205	1-Bromo-4-methoxynaphthalene	2		3	4
1500	T-DIOMO-4-Me and Water and Terro	_			

Table 1 (Continued)

Item	2	House	flies :	Mosquit	000
No.		Knock-do			
1207	2(4-Bromo-2-methyl-phenoxy)-21-chloro-di- ethyl ether	- 2	2	3	2
1230	beta-Bromopropionic acid, n-butyl ester	2	2	2	3
1234	4-Bromo-3-resorcinol monomethyl ether	2	_	2	3
1237	1-Bromo-2,4,6-triethylbenzene	2		3	3 3 4
1246	1,1,4,4-Butanetetracarboxylic acid, tetraethyl ester	2		3 2	4
1249	(1-Butenyl)butylmalonic acid, diethyl est	er 2		3	4
1250	(1-Putenyl)ethylmalonic acid, diethyl est			3 2	4
1253	2-iso-Butenyl-2-methyl-1,3-dioxolane-4,5-	. 2	3	2	4
	dicarboxylic acid, dimethyl ester			_	
1254	(1-Dutenyl)propylmalonic acid, diethyl ester	2		3	4
1257	o-n-Butoxybenzaldehyde	2		2	3
1258	o-sec-Butoxybenzeldehyde	2		2 2 4 3 2	3 3 4 3 2 4
1259	p-Butoxybenzaldehyde	2		2	4
1265	o-sec-Futoxybenzyl alcohol	2		4	3
1268	p-sec-Butoxybenzyl alcohol	2		3	ź
1270	p-Eutoxycinnamic acid, n-butyl ester	2		ź	4
1271	p-Butoxycinnamic acid, 2-ethyl-n-butyl ester	2		2	3
1277	1-n-Butoxy-2-hydroxyindane	2	2	2	4
1278	p-Butoxyphenethyl alcohol	2	2	2	4
1280	p-sec-Butoxyphenethyl alcohol	2 2 2	2	<del>1</del>	4
1282	p-Butoxyphenylbronide	2	2	2	4
1284	2-iso-Putoxy-1-phenylethanol	2	_	3	4
1285	2-p-n-Butoxyphenyl-5-ethyl-6-propyl-dioxane-1,3	2		2 3 3	ų.
1298	N-Butyl-N-(2-acetoxyethy Dacetamide	2	3	14	2
1303	N-Butylaminoacetic acid, lauryl ester	2	3 2	1	2
1304	alpha-n-Butyl-beta-aminodiethyl ether	2	2		ĬĮ.
1305	alpha-Butylaminomethyl benzyl alcohol	2	2	7	2
1306	p-tert-Butyl anisole	2	_	3	4
1314	1-n-Buty1-1-benzoylacetone		4	ź	2
1322	N-n-Butyl-n-butyranilide	3 4		Ħ	4
1323	N-Butyl-N-(2-butyroxyethyl)butyramide		3 3 2 3 2	14	
1324	N-iso-Butyl capramide	2	2	4	3
1328	4-tert-Buty1-2-chlorophenol	2	3	3	3
1338	N-n-Butylcrotonanilide	4	2	3	2
1347	(n-Butyl)(3,5-dichloro-2-xenyl) ether	2	2	ž	2
1351	N-iso-Butyl-3,6-endomethylene-1,2,3,6- tetrahydrophthalimide	并	2	3 3 3	2 3 3 2 2 2
1353	levo-2,3-Butylene glycol	2	3	2	2
1357	N-n-Butylformanilide	2	3	2 14	3
1362	N-n-Butylhexahydrophthalimide	2	2	2	2 3 3 3
1379	n-Butylmalonic acid, diethyl ester	2	_	٦ 5	3
1384	2-iso-Butyl-2-methyl-1,3-dioxolane-4,5-	2		2	3
	dicarboxylic acid, dimethyl ester	_		_	

Table 1 (Continued)

	I (OUNTINGE)	Was and	35	
Item		House flies	Mosqui	toes
No.	: Chemical :	Knock-down: Ki	TINDOCK-OC	Wn:Kill
1385	N-n-Butyl-3-methylhexahydrophthalimide	2 2	2 2	7
1386	N-Butyl-3-methylhexahydrophthalimide	3 2		3
1300	(isomerism of butyl group not known)	) 2	. )	)
1387	N-n-Butyl-4-methylhexahydrophthalimide	4 4	<b>4</b>	2
1389	2-iso-Butyl-5-methyl-5-nitro-m-dioxane	2		74
1390	1-Butyl-2-methyl-5-oxo-2-pyrroline-3-	3 3	3 4	3
-))0	carboxylic acid, ethyl ester	,	,	
1391	l-iso-Butyl-2-methyl-5-oxo-2-pyrroline-3-	· 3 a	2 2	3
-	carboxylic acid, ethyl ester		_	
1392	1-sec-Buty1-2-methy1-5-oxo-2-pyrroline-3-	. 3 2	4	3
J	carboxylic acid, ethyl ester			
1393	N-n-Butyl-3-methyl-1,2,3,6-tetrahydro-	4 г	4	2
	phthalimide			
1394	N-n-Butyl-4-methyl-1,2,3,6-tetrahydro-	4 2	2 2	
	phthalimide			
1402	p-iso-Butylphenethyl alcohol	2	3	4
1405	2-(4-tert-Butylphenoxy)-21-chloro-	2 2	2 3	2
	diethyl ether			
1418	N-Butyl-N-phenylcarbamic acid, butyl este	r 2 2	4	<b>并</b>
1419	N-Butyl-N-phenylcarbamic acid, ethyl este		2 3	<b>并</b>
1420	N-Butyl-N-phenylcarbamic acid, methyl est		3 4	7
1432	N-sec-Butyl phthalimide	2 2	3 4	2
1433	N-tert-Butylphthalimide	2	4	<b>并</b>
1434	N-Butylpropionamide	2 2	2	3
1437	N-n-Butylpropionanilida	并 并	4	3 2 2 2
1438	N-Butyl-N-(2-propionoxyethyl)propionamide	2 2	4	2
1444	N-n-Butylsuccinamic acid, ethyl ester	2	4	2
1449	1-Butyl-1,4,5,6-tetrahydro-2-methyl-6-	2 2	4	4
	oxonicotinic acid, methyl ester			
1450	1-n-Butyl-1,2,3,4-tetrahydro-2-naphthol	2	2	3
1451	x-iso-Butyl-1,2,3,4-tetrahydro-2-naphthol	. 2	2	3
1461	Butyl p-tolyl ether	2	2	3 3 2
1462	N-iso-Butylundecylenamide	3 2		2
1474	Butyraldehyde 2-nitro-2-methyl-1,3-	2	并	3
•	propanediol acetal			
1497	Butyric acid, catechol diester	2 2		7
	Butyric acid, 1,2-cyclohexanediol diester	2 2		3
1501	iso-Butyric acid, 1,2-cyclohexanediol	2	2	3
	diester			
1503	iso-Butyric acid, 1,4-cyclohexanediol	2 2	2 4	3
	diester			
1510	Butyric acid, diethylene glycol monoester	2	74	2
1511	iso-Butyric acid, diethylene glycol	2	<b>并</b>	2
	monoester			
1512	Butyric acid, dodecyl ester	2 3	3 4	2
	iso-Butyric acid, dodecyl ester			2
	Butyric acid, glucose pentaester	2 2	2 3	2

Table 1 (Continued)

	1 (OULTIMOU)		03.0		
Item			flies		
No.	: Chemical	Knock-d	own:Kill:	Inock-do	wn:Kill
1521	Butyric acid, 1,6-hexanediol diester	2	2	2	7
		2	2	. 2	3 2 2 2 4
1526	n-Butyric acid, lauryl ester	)		4	2
1527	iso-Butyric acid, lauryl ester	7	2	4	2
1528	n-Butyric acid, p-methoxybenzyl ester	3 2 3 ter 2	2 2 2	4	2
1530	Butyric acid, methyl-gamma-2-tetralyl est	ter 2	2		4
1532	Butyric acid, 2-naphthyl ester	2	0	2	
1533	Butyric acid, 2-nitro-2-ethyl-1,3-propandiol diester	B- <	2	3	2
1575	Butyric acid, 2-nitro-2-methyl-1,3-propar	ne- 2		4	0
1535	diol diester	116- S		4	2
1576		2		4	0
1538 1541	Butyric acid, 3-octynyl ester	2	4	4	5
	Butyric acid, 1,5-pentanediol monoester	2		4	
1549	n-Butyric acid, 3-phenylpropyl ester	2	2		2
1550	Butyric acid, piperonyl ester	2	2	3	2
1554	m-Butyric acid, resorcinol diester	2		4	2 3 2
1555	n-Butyric acid, 1,2,3,4-tetrahydro-2-	2		4	2
1556	naphthyl ester			4	4
1556	m-Butyric acid, 2,2'-thiodiethanol dieste	er 2		4	
1563	gamma-Butyrolactone	2			jt .
1568	Butyrotrifluoro-m-toluidine	2		3	2
1569	alpha-Butyroxyacetophenone				3 3
1570	1-Butyroxycyclohexanecarboxylic acid,	2	2	2	3
1570	propyl ester	~	0	-	-
1579	N-n-Butyryl-N-methylanthranilic acid, methyl ester	3	2	3	3
1581	N-n-Butyryl-1,2,3,4-tetrahydroquinoline	4	7	0	0
1599	d-Camphoric acid, diethyl ester	2	3 2	۲ 2	2
1605	Capric acid, cyclohexyl ester	2	Ĭ	ļi,	2
1614	n-Caproic acid, benzyl ester	2	2	i,	2
1616	n-Caproic acid, cinnamyl ester	2	2	4	2 2 2 2 2 2
1620	Caproic acid, ethylene diester	2	2	4	2
1622	n-Caproic acid, guaiacol ester	2	۷	4	2
1626	Caproic acid, 3-hydroxypropyl ester	2		4	2
1627	n-Caproic acid, lauryl ester	2		4	_
1630	Caproic acid, 1,5-pentanediol diester	2	3	4	7
1631	Caproic acid, 1,5-pentanediol monoester	2	)	4	7
1633	Caproic acid, 1,2-propanediol diester	2	3	4	2
1637	n-Caproic acid, tetrahydrofurfuryl ester	2	)		7
1638	n-Caproic acid, 2,21-thiodiethanol dieste			2 3 4	3
1639	Caproic acid, trimethylene diester	2	2	Į,	2
1640	Caproic anhydride	2	3		2
1641	Caproin (or 6-hydroxy-7-dodecanone)	2	)	2 3 2 2 2	2 3 3 2 3 4 2 2 2 2 3 4 2 3 3
1642	alpha-Caproxyacetophenone	2		2	7
1643	alpha-Caproylcaproic acid, ethyl ester	2		2	3
1650	Caprylic anhydride	2	4	2	2
1654	2-Carbobenzoxymethyl-2-methyl-1,3-dioxole		2	lı	7
1656	2(2-Carbocyclohemoxyethyl)-2-methyl-1,3-	5	2	4	7
	diomlane	2	2	*	)
	CT O YO TSULE				

Table 1 (Continued)

House flies   Mosquitoes   No.   Chemical   House flies   Mosquitoes   No.   Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Knock-down:Kill:Rnock-down:Kill:Knock-down:Kill	TA					
1657 gamma-Carboethoxy-gamma-cyanopimelic 2 2 3 acid, diethyl ester 1661 alpha-Carboethoxyglutaric acid, diethyl 2 4 2 ester 1666 2-Carboethoxymethyl-2-methyl-5,5-penta- 2 2 4 2 methylene-1,3-dioxolan-4-one 1667 N-Carboethoxymorpholine 2 2 2 3 3 acid, ethyl ester 2 2 3 3 3 acid, ethyl ester 2 2 4 4 2 1673 2-Carboethoxysalicylic acid, methyl ester 2 4 4 2 1673 2-Carboethoxysetralone-1 2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 2 1678 3-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 3 ester 1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester 1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4 4						
acid, diethyl ester  alpha-Carboethoxyglutaric acid, diethyl 2 ester  1666 2-Carbethoxymethyl-2-methyl-5,5-penta- methylene-1,3-dioxolan-4-one  1667 N-Carboethoxymorpholine  1671 alpha-Carboethoxy-beta-phenylheptanoic 2 2 3 3 acid, ethyl ester  1672 Carboethoxysalicylic acid, methyl ester 2 4 4 2 1673 2-Carboethoxytetralone-1 2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3-2 4 4 2 dioxolan-4-one  1678 3-Carbomethoxypropane-1,1-dicarboxylic acid, 2 3 2 diethyl ester  1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester  1685 Carbonic acid, carbethoxynexyl ethyl ester 2 2 2 2 3 1691 Carbonic acid, carbethoxynexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2	NO.	: Chemical	: VIOCK-0	OWD: KILL	knock-do	wn:K111
1661 alpha-Carboethoxyglutaric acid, diethyl 2 ester  1666 2-Carbethoxymethyl-2-methyl-5,5-penta- methylene-1,3-dioxolan-1-one  1667 N-Carboethoxymorpholine 2 2 2 2 3 1671 alpha-Carboethoxy-beta-phenylheptanoic 2 2 3 3 acid, ethyl ester  1672 Carboethoxysalicylic acid, methyl ester 2 4 4 2 1673 2-Carboethoxytetralone-1 2 4 4 2 1677 2-Carboethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 2 dioxolan-1-one  1678 3-Carbomethoxymorphone-1,1-dicarboxylic acid, 2 3 2 diethyl ester  1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester  1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 5,3'-dichlorodipropyl ester 2	1657	gamma-Carboethoxy-gamma-cyanopimelic	2		2	3
1666 2-Carbethoxymethyl-2-methyl-5,5-penta- methylene-1,3-dioxolan-4-one  1667 N-Carboethoxymorpholine 1671 alpha-Carboethoxy-beta-phenylheptanoic acid, ethyl ester  1672 Carboethoxysalicylic acid, methyl ester 1673 2-Carboethoxytetralone-1 1674 2-Carboethoxymethyl-2-methyl-5-phenyl-1,3- dioxolan-4-one  1675 3-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- dioxolan-4-one  1676 Carbonic acid, 4-tert-amylcyclohexyl acid, 2 diethyl ester  1684 Carbonic acid, benzyl ethyl ester 1685 Carbonic acid, benzyl ethyl ester 1686 Carbonic acid, carbethoxyhexyl ethyl ester 1692 Carbonic acid, 2-(3-carbethoxy)octyl ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 1694 Carbonic acid, cinnamyl ethyl ester 1695 Carbonic acid, cinnamyl ethyl ester 1696 Carbonic acid, cinnamyl ethyl ester 1697 Carbonic acid, cinnamyl ethyl ester 1698 Carbonic acid, cinnamyl ethyl ester 1699 Carbonic acid, cinnamyl ethyl ester 1690 Carbonic acid, cinnamyl ethyl ester 1691 Carbonic acid, cinnamyl ethyl ester 1692 Carbonic acid, cinnamyl ethyl ester 1693 Carbonic acid, cinnamyl ethyl ester 1694 Carbonic acid, cinnamyl ethyl ester 1695 Carbonic acid, cinnamyl ethyl ester 1696 Carbonic acid, cinnamyl ester 1697 Carbonic acid, cinnamyl ester 1698 Carbonic acid, cinnamyl ester 1699 Carbonic acid, cinnamyl ester	1661	alpha-Carboethoxyglutaric acid, diethyl	2		4	2
1667 N-Carboethoxymorpholine 2 2 2 3 1671 alpha-Carboethoxy-beta-phenylheptanoic 2 2 3 3 3 acid, ethyl ester 1672 Carboethoxysalicylic acid, methyl ester 2 4 4 1673 2-Carboethoxytetralone-l 2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 4 dioxolan-4-one 1678 3-Carbomethoxypropane-l,l-dicarboxylic acid, 2 3 2 diethyl ester 1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester 1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2	1666	2-Carbethoxymethyl-2-methyl-5,5-penta-	2	2	<b>Ъ</b>	2
1671 alpha-Carboethoxy-beta-phenylheptanoic 2 2 3 3 3 acid, ethyl ester 1672 Carboethoxysalicylic acid, methyl ester 2 4 4 1673 2-Carboethoxytetralone-1 2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 4 2 1678 3-Carbomethoxypropane-1,l-dicarboxylic acid, 2 3 2 diethyl ester 1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester 1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1667		2	2	2	7
1672 Carboethoxysalicylic acid, methyl ester 2 4 14 1673 2-Carboethoxytetralone-1 2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 4 2 1677 2-Carbomethoxypropane-1,l-dicarboxylic acid, 2 3 2 diethyl ester 1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester 1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4		alpha-Carboethoxy-beta-phenylheptanoic				3
2 4 4 2 1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 4 4 4 dioxolan-4-one 1678 3-Carbomethoxypropane-1,1-dicarboxylic acid, 2 3 2 diethyl ester 1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester 1685 Carbonic acid, benzyl ethyl ester 2 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1672		2		4	μ
1677 2-Carbomethoxymethyl-2-methyl-5-phenyl-1,3- 2 dioxolan-4-one  1678 3-Carbomethoxypropane-1,1-dicarboxylic acid, 2 diethyl ester  1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester  1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2				4		
1678 3-Carbomethoxypropane-1,1-dicarboxylic acid, 2 diethyl ester  1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester  1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1677				并	4
1684 Carbonic acid, 4-tert-amylcyclohexyl ethyl 3 2 4 3 ester  1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2	1678	3-Carbomethoxypropane-1, 1-dicarboxylic ac:	id, 2		3	2
1685 Carbonic acid, benzyl ethyl ester 2 2 2 3 1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester 1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2	1684	Carbonic acid, 4-tert-amylcyclohexyl ethy:	1 3	2	74	3
1691 Carbonic acid, carbethoxyhexyl ethyl ester 3 2 2 2 1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1685		2	2	2	3
1692 Carbonic acid, 2-(3-carbethoxy)octyl 2 2 4 2 ethyl ester  1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1691		r 3			ź
1693 Carbonic acid, p-chlorophenyl n-amyl ester 2 2 4 2 1696 Carbonic acid, cinnamyl ethyl ester 2 2 4 3 1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4	1692		2	2	<b>j</b> t	2
1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4		Carbonic acid, p-chlorophenyl n-amyl ester				
1702 Carbonic acid, 3,3'-dichlorodipropyl ester 2 4 4		Carbonic acid, cinnamyl ethyl ester		2		3
1707 (1.1)			2			4
1707 Carbonic acid, di-2-ethyl hexyl ester 2 4 2 1712 Carbonic acid, di-m-tolyl ester 2 2 4 2 1713 Carbonic acid, di-p-tolyl ester 2 3 2			2	2		2
1713 Carbonic acid, di-p-tolyl ester 2 3 2			2	2		2
1713 Carbonic acid, di-p-tolyl ester 2 3 2 1716 Carbonic acid, ethyl p-bromophenyl ester 2 4					2	Ĭ.
1717 Carbonic acid, ethyl 4-tert-butyl-2- 3 2 4 2				2	¥	
chlorophenyl ester		chlorophenyl ester				
1722 Carbonic acid, ethyl 2,4-dichlorophenyl 2 3 3 ester	·		2		3	3
1724 Carbonic acid, p-methoxybenzyl ethyl ester 2 2 3 3		Carbonic acid, p-methoxybenzyl ethyl ester		2	3	3
1730 Carbonic acid, phenethyl ethyl ester 2 2 3					2	3
ester		ester				
1732 Carbonic acid, 3-phenylpropyl ethyl ester 2 2 4 3			2	2		3
1735 Carbonic acid, p-tolyl amyl ester 2 4 2 1736 Carbonic acid, p-tolyl butyl ester 2 3 2	1776		2			2
1736 Carbonic acid, p-tolyl butyl ester 2 3 2 1746 2-Carboxyphenoxyacetic acid, diethyl ester 2 3 2	17/16		. 2		2	2
1736 Carbonic acid, p-tolyl butyl ester 2 3 2 1746 2-Carboxyphenoxyacetic acid, diethyl ester 2 3 2 1749 N-3-Carboxypropionylmorpholine 2 3 4 2			2	7	긺	2
1749 N-3-Carboxypropionylmorpholine 2 3 4 2 1750 3-Carboxypropionylmorpholine, ethyl ester 2 2 4 3			2	2		3
1766 Catechol 2 4 2			2	_		2
1746 2-Carboxyphenoxyacetic acid, diethyl ester 2 1749 N-3-Carboxypropionylmorpholine 2 3 4 2 1750 3-Carboxypropionylmorpholine, ethyl ester 2 2 4 3 1766 Catechol 2 4 2 1767 Catechol diallyl ether 2 2 3 1770 Cetyl alcohol 2 2 4 2 1771 Cetyl bromide 2 4 2			2		2	3
1770 Cetyl alcohol 2 2 4 2			2	2	计	2
			2		-	2
1777 Chaulmoogric acid, methyl ester 2 3 2 4	1777	Chaulmoogric acid, methyl ester	2	3	2	4

Table 1 (Continued)

74		A 77	07.4	36- 14	
Item				Mosquit	
No.	: Chemical	:Knock-do	wn:Kill:	Inock-dov	m:Kill
1802	Chloroacetic acid, tetrahydrofurfuryl	2		2	4
1806	ester	2	2	0	-
	p-Chloroacetophenone	2	2 2	<u>ل</u> ا 5	3 2
1807	p-Chloroacetophenone glycerol	2	2	4	2
1817	2-Chloro-5-tert-amylphenoxyethoxyethyl	•		1,	1.
1.000	chloride	. 2		<u>†</u>	7
1825	o-Chlorobensaldehyde oxime			3 3 4	4
1840	m-Chlorobenzoic acid, iso-anyl ester	2		ج	2
1844	p-Chlorobenzoic acid, iso-amyl ester	2	2		2 2 2 2 2 3 2 2
	m-Chlorobenzoic acid, n-butyl ester	2	2	)†	2
1845	p-Chlorobenzoic acid, n-butyl ester	2	2	74	2
1851	o-Chlorobenzoic acid, n-propyl ester	2		4	2
1853	p-Chlorobenzoic acid, n-propyl ester	2	2	4	2
1855	p-Chlorobenzophenone	2	2	2	3
1856	p-Chlorobenzoylacetic acid, ethyl ester	2	2	74	2
1859	beta-(p-Chlorobenzoyl)propionic acid, allyl ester	3	2	3	
1860	p-Chlorobenzylcyanide	2		2	4
1868	alpha-Chlorobutyric acid, tetrahydrofur-				
	furyl ester	2		4	2
1872	2-Chloro-21-(4-chlorophenoxy)diethyl eth		3	2	2
1875	beta-Chloro-beta -1-cyclohexyl-phenoxy- diethyl ether	2	2	3	2
1880	p-Chlorodiphenyl	2	2	7	2
1889	2-(2-Chloroethoxy)-2'-(2-hydroxyethoxy)-	2	2	3 3	2
1000	diethyl ether	-T 0		4	-
1898	beta-Chloroethyl-4,4:-dichlorobenzylhydr, ether				3
1900	1-Chloro-4-iodonaphthalene	2	3	4	14
1902	Chloromaleic acid, (allyl lactate) hydrogen ester	2		74	2
1920	4-Chloro-2-nitrodiphenylamine	2	2	2	3
1925	4-Chloro-6-tert-octylresorcinol		2	7‡	3
1932	o_Chorophenoxyacetic acid, ethyl ester	2	2	<b>Д</b>	Į
1938	N-(4-Chlorophenoxyethyl)-cyclohexylamine	2	2	3	2
1947	alpha(4-Chlorophenyl)ethyl alcohol	2	2	3 2 4	2
1949	1-(p-Chlorophenyl)-3-ethyl-2-pentanol	2		2	3
1950	p-Chlorophenyl furyl ketone	2		14	2 3 2
1954	1-(p-Chlorophenyl)-2,4-pentanediol (solid form)	2		2	4
1967	Chloropropionic acid, amyl ester	3	2	2	2
1968	Chloropropionic acid, benzyl ester	3 2	_	4	2
1970	beta-Chloropropionic acid, 2-butoxyethyl	2	2	14	2
7, -	ester	_	_	. *	_
1973	alpha-Chloropropionoxypropionic acid	2	7	2	2
1986	beta-Chloro-beta-(2,4,6-trichloro-	2	3	3	2
	phenoxy)diethyl ether	_	_		_
5007	Cinnamic acid, benzyl ester	2	2	3	3
	- Total Tota	_	_	)	)

Table 1 (Continued)

	1 (outstimen)				
Item		House	flies:	Mosquit	toes
No.	: Chemical	Knock-do	wn:Kill:K	nock-dov	vn:Kill
2005	Cinnamic acid, bornyl ester	2			0
2007	Cinnamic acid, iso-butyl ester	2	2	3 3 3 3	2
2008	Cinnamic acid, sec-butyl ester	2	2	2	2
2009	Cinnamic acid, <u>sec-butyl</u> ester	2	2	5	2
2012	Cinnamic acid, cetyl ester	2	2	2	2 2 4
2014	Cinnamic acid, 3-chloro-2-methylpropyl	2	7	2	2
COLT	ester	2	3	ح.	2
2016	Cinnamic acid, cyclohexyl ester	2	2	7	2
2021	Cinnamic acid, glycol monoester	2	2	3 2	7
2029	Cinnamic acid, n-propyl ester	2	2	7	2 3 3 3
2030	Cinnamic acid, iso-propyl ester	2	2	3 2	2
2038	See Item No. 6315-a	6	£-	_	)
2042	Citral oxime	3	2	2	2
2050	Citric acid, tri-n-hexyl ester	3 2	2	4	ř.
2053	Citronellal 1,3-butylene glycol acetal	2	-	4	2
2055	Citronellal oxime	2 2 2 2 2 2			242342322
2064	Cocomut laurin	2		2	丘
2091	o-Cresotinic acid, iso-amyl ester	2	3	2 2 4	2
2093	omega-(p-Cresoxy)acetophenone	2	3 2 2		3
2098	Crotonaldehyde dicctyl mercaptal	2	2	3	ž
2099	Crotonaldehyde 2-ethyl-2-butyl-1,3-	2		4	2
	propanediol acetal				
2100	Crotonaldehyde 2-nitro-2-ethyl-1,3-	2	2	4	2
	propanediol acetal				
2101	Crotonaldehyde 2-nitro-2-methyl-1,3-	2		3	2
	propanediol acetal				
2107	Crotonic acid, benzyl ester	2	<del>با</del> 5	Й	2
2118	Crotonic acid, pentanediol-1,5 diester	2		2	2
2119	Crotonic acid, phenethyl ester	3	2 2 3	4	2
2121	Crotonic acid, 3-phenylpropyl ester	3	2	4	2
2122	Crotonic acid, 1,3-propanediol diester	2 3 3 2 2 2	3	4	2
2127	alpha-Crotonoxyacetophenone	2		<u>ц</u>	3
2141	alpha-Cyanoacetic acid, benzyl ester				2 2 2 2 3 3 3 4
2144 2145	alpha-Cyanoacetic acid, cyclohexyl ester	2 e <b>r</b> 2		ц ц	
2145	alpha-Cyanoacetic acid, 2-ethoxyethyl est Cyanoacetic acid, 2-ethylhexyl ester	2			2
2149	Cyanoacetic acid, zethylnexyl ester	2	2	3 2 4	3 3 4 2 3 4 2 4
2150	Cyanoacetic acid, 2-methylcyclohexyl este		<b>C.</b>	)ı	2
2151	Cyanoacetic acid, 3-methylcyclohexyl este			4	7
2152	Cyanoacetic acid, 4-methylcyclohexyl este	r 2		4	ž.
2155	alpha-Cyanobutyric acid, cyclohexyl ester	2	2	4	2
2160	Cyanocyclohexenylacetic acid, ethyl ester		6-	2	'n
2162	alpha-Cyano-beta, beta-dimethyl-gamma-	2		3	2
2102	acetylbutyric acid, allyl ester	to to		)	_
2163	alpha-Cyano-beta, beta-dimethyl-gamma-	2		14	2
2105	acetylbutyric acid, ethyl ester	to to		·	_
2164	alpha-Cyano-beta, beta-dimethyl-gamma-	2	2	3	2
	acetylbutyric acid, beta-methoxyethyl	_	-		-
	ester				
	00001				

Table 1 (Continued)

Item		: House			
No.	: Chemical	:Knock-do	wn:Kill:	Knock-de	wn:Kill
2175	alpha-Cyanopropionic acid, cyclohexyl ester	2		3	2
2176	alpha-Cyanopropionic acid, o-methyl- cyclohexyl ester	2		jt	2
2178	alpha-Cyanopropionic acid, p-methyl- cyclohexyl ester	2	2	并	2
2180	Cyanosuccinic acid, dimethyl ester	2		7	2
2181	1-Cyano-2,2,4-trimethylpentanediol-1,3	2	2	3	5
	1,3-Cyclohexanediol (mixture of cis and	2	2	2	3
2195	trans)				
2202	Cyclohexan-1-ol-1-carboxylic acid, cyclohexyl ester	2	jt	2	2
2203	Cyclohexan-l-ol-l-carboxylic acid, cyclopentyl ester	2	7†	2	2
2205	Cyclohexanol-l-carboxylic acid, 2-hydroxy ethyl ester	- 2	2	<b>并</b>	2
2206	Cyclohexanol-1-carboxylic acid,	2		<b>并</b>	2
	3-hydroxypropyl ester				_
2208	1-(Cyclohexane-2-o1)propanol	2		S	3 4
2222	(1-Cyclohexenyl)methylcyancacetic acid, ethyl ester	2		<b>力</b>	4
2225	Cyclohexylacetic acid, beta-butoxyethyl ester	2	2	74	2
2227	Cyclohexylacetic acid, diethylene glycol monoester	2		74	74
2228	Cyclohexylacetic acid, methyl ester	2	2	2	14
2239	4-Cyclohexylbutanoic acid	2		2	
2240	N-Cyclohexylbutoxyacetamide (Indimide)		3 2	4	2 3 2
2250	Cyclohexylcaproic acid, methyl ester	2	3	4	2
2253	alpha-Cyclohexyl-alpha-cyanoacetic acid,	2	)	3	7
	allyl ester				
2254	Cyclohexylcyanoacetic acid, benzyl ester	2	2	3	4
2255	alpha-Cyclohexyl-alpha-cyanoacetic acid, cyclohexyl ester	2			7†
2256	Cyclohexylcyanoacetic acid, 2-ethoxyethyl ester	. 2	2	<b>Д</b>	3
2257	Cyclohexylcyanoacetic acid, ethyl ester	2		74	4
2258	alpha-Cyclohexyl-alpha-cyanoacetic acid, methyl ester	2	2	3	4
2259	alpha-Cyclohexyl-alpha-cyanoacetic acid, propyl ester	2	2	4	ц
2260	alpha-Cyclohexyl-alpha-cyanoacetic acid,	2	2	4	4
2260a	iso-propyl ester	_	_		
	3-Cyclohexylcyclohexanol	2	2	5	2
2283	6-Cyclohexylhexenoic acid, iso-propyl est		2	3	3
2284	Cyclohexylidenecyanoacetic acid, methyl ester	2		2	3
2289	Cyclohexylmalonic acid, diethyl ester	2		74	2

Table 1 (Continued)

	1 (Continued)				
Item	· · · · · · · · · · · · · · · · · · ·	House fl	ies :	Mosquit	068
No.	: Chemical :	Knock-down	:Kill:	Inock-dow	n:Kill
2289a	Cyclohexyl 3-methyl-14-methoxyphenyl keton	. 7	2	7	2
2299	x-(2-Cyclohexylphenoxy)-x-propanol	2	7	3 4 4 4	S S # S # S S
	alpha-Cyclohexylphenylacetonitrile	~	3	2	) <sub>1</sub>
2300		3 2 4 2 2	**	)1	4
2302	Cyclohexyl phenyl ketone	<u>}</u>	0	);	1,
2303	N-Cyclohexyl-N-phenylpropionemide	4	2	4	4
2305	3-Cyclohexyl-1,2-propanediol	2	2	3	2
2315	Cyclohexyl 2-thienyl ketone		2		2
2318	Cyclopentan-l-ol-l-carboxylic acid, iso-amyl ester	2	3	2	
2319	Cyclopentan-1-ol-1-carboxylic acid,	2	3	2	
-)-)	cyclohexyl ester				
2320	Cyclopentan-1-ol-1-carboxylic acid,	2	3	2	2
	cyclopentyl ester	1			
2326	Cyclopentylidenecyanoacetic acid,	并	3	4	<b>并</b>
	methyl ester				
2327	Cyclopentylmalonic acid, diethyl ester	2		3	3
2347	alpha-Decalol	2		3 3 4	2
2343	beta-Decalol	2		4	2
2344	alpha-Decalone	2	2	2	3
2347	Decamethylene bromide	2	<b>并</b>	2	2
2350	Decanediol-3,5	2		4	2
2368	Dehydro coumarin	2		2	3
2370	Deltyl prime (Lauric acid, iso-propyl est		2	4	32232232
	with small quantities of iso-propyl	-, -			
	myristate and palmitate)				
2379	Di-(l-acetoxycyclohexyl)acetylene	3	3	4	2
2380	D1(2-acetoxyethyl) sulfone	3 2	3	4	2
2404	1,3-Diamino-2-n-propylheptane	2	2	4	2
2416	N,N-Diamylglycine, ethyl ester		-	<u>.</u>	2 2 2 4 2 2 2
2419	Di-n-amylmalonic acid, diethyl ester	2 2 2 4		3 4	9
2425		2	7	2	2
5452	Di-tert-amylphenoxyethanol N,N-Diamylsuccinamic acid, ethyl ester	ິນ	3	2	2
			2	2	2
2429	N,N-Diamylsuccinamic acid, n-propyl ester	2	2		
2431	N,N-Di-n-anylurethane	2	Ĭ	才 5 才	3 2 2 4
2434	m-Dianisyl	2		ໂເ	2
2436	Dianol II (dimer of p-hydroxycinnamyl)	2	2		),
2453	Dibenzyl ketone		2	2	2
2456	alpha, alpha!-Dibromoadipic acid, diethyl ester (racemic)	2		5	2
2463	alpha, beta-Dibromocinnamic acid,	2	2	4	74
	ethyl ester				
2467	alpha, alpha '-Dibromo-beta, beta '-dimethyl-	2	2	4	2
	glutaric acid, diethyl ester				
2471	2,4-Dibromo-alpha-naphthol	2	2	3	3
2480	Di-(2-butroxyethyl) sulfone	2			2
2485	N, N-Di-iso-butylacetoacetamide	3 2	2	3	2
2495	N, N-Dibutylcinnamamide	2	2		3 2 2 3 4
2502	N, N-Di-n-butylfurozmide	3	2	2	4
2,02	at y at mark _ as _ o of all are the domination				

Table 1 (Continued)

Table	1 (Continued)				
Item	*	: House	flies :	Mosquit	oes
No.	: Chemical	Knock-do	wn:Kill:K	nock-dow	m:K111
2503	N, N-Di-n-butylfurylacrylamide	2	7	14	14
	N,N-Dibutyllauramide	2	3 2	4	
2506		<			2
2522	N,N-Dibutylsuccinamic acid, ethyl ester	3	2	4	2
2523	N,N-Di-iso-butylsuccinamic acid, ethyl e	ster 4	2	4	14
2524	N,N-Di-iso-butylsuccinamic acid,	3	2	<b>并</b>	14
	methyl ester				
2525	N, N-Di-n-butylsuccinamic acid, n-propyl	14	2	4	14
	ester				
2526	Di-n-butyl sulfone	2	2	3	2
	Di-n-butylurethane	2	Gas.	2	~
2533			0	7	3 4
2536	0,0-Dicarboethoxy-1,3-cyclohexanediol	2	2		
2537	alpha, alpha '-Dicarbo ethoxy-alpha, alpha '-	3	2	2	2
	dimethyladipic acid, diethyl ester				
2539	Di-(beta-carboethoxyethyl)methylamine	2		74	2
2541	gamma, gamma-Dicarboethoxypimelonitrile	2	2	4	2 2
2542	Dicarboethoxyurethane	2	2	4	2
2544	4,5-Dicarbomethoxy-2,2-tetramethylene-	2	2	并	2
	1-3-dioxolane	_	_	•	the contract of the contract o
2562	p,p*-Dichlorobenzophenone	2		4	7
2564		2	77		2
2704	x,x-Di-(x-chlorobenzyl)chlorobenzene		3 2	2 2 14	3 2 3 2 3 2
2579	2,4'-Dichlorodiphenylmethane	2	2	5	3
2580	4,4'-Dichlorodiphenyl sulfide	2			3
2602	1-(2,4-Dichlorophenoxy)-2,3-epoxypropane	2		并	2
2608	Di-o-chlorophenylacetonitrile	2		2 4	3
2630	alpha, beta-Dicyano-iso-valeric acid,	2		4	2
	ethyl ester				
2637	N,N-Dicyclohexylcarbamic acid, ethyl est	er 2	2	14	2
2640	Dicyclohexyl carbodiimide	2	2	14	2
2646	Di-(3-cyclohexylpropyl) ether	2	2		2
2649	Didecyl sulfide	2	2	2	7
2657	Di-(2-ethoxyanyl)amine	2	_	3 3 2 3 3	2 2 2 3 4 2 2
2658	3,4-Diethoxybenzaldehyde	2	7	7	7
2663		2	3	2	۵.
2664	1,3-Diethoxy-2-hydroxypropene	4		ب	
	Di-(2-ethoxy-3-methylamyl)amine		2	4	4
2667	Diethylacetic acid	2		2 4	3 4
2670	N,N-Diethyladipamic acid, ethyl ester		2	4	4
2671	N,N-Diethyladipamic acid, methyl ester	2		3	并
2672	N, N-Diethyladipamic acid, iso-propyl est-	er 2	2	<u>1</u>	4
2674	Diethylamidotetrahydrobenzoic acid,	3	2	<b>并</b>	2
·	methyl ester				
2675	p-Diethylaminobenzaldehyde	2	3	4	2
2676	p-Diethylaminobenzyl alcohol	5	_/		2 4 3 3 4
2677	beta-Diethylaminocinnamic acid, ethyl es		4	3	7
2690					2
2682	N-4-(1-Diethylaminopentyl)urethane	2	2	4	3
2683	2-(p-Diethylaminophenyl)-1,3-dicxolane	2		4	
2684	2-(p-Diethylaminophenyl)-4-methyl-	2		并	<b>并</b>
	1,3-dioxolane				
2693	N, N-Diethyl-alpha-butoxyacetamide	2		3	3

Table 1 (Continued)

TROLE	I (COUCTIFFED)				
Item				Mosquit	
No.	: Chemical	Knock-d	lown: Kill:	Knock-dow	n:Kill
2699	N, N-Diethylcinnamamide	2	2	7	3
-2700	N, N-Diethyl-alpha-cyclohexoxyacetamide	4	4	Ъ	3
	Diethylene glycol, bis(allyl carbonate)	2	·	4	2
2708			2	7	2
2711	Diethylene glycol, bis(iso-butyl carbonat		2	3	2
2714	Diethylene glycol bis(methyl carbonate)	2		4	5 5 5
2716	Diethylene glycol, bis(propyl carbonate)	2		3	2
2718	Diethylene glycol isobornyl butyl ether	2	2	4	2
2721	N, N-Diethylfurylacrylamide	2	2	并	<b>并</b>
2722	N,N-Diethylgluteramic acid, ethyl ester	2		14	3
2723	N, N-Diethylglutaramic acid, methyl ester	2		3	3
2724	N,N-Diethylglutaramic acid, propyl ester	2	3	4	4
2726	Di-(3-ethyl-l-heptanyl)amine	2	3 2	1	2
	2,5-Diethylhexano-1,6-diol	2	2	7	7
2727		2 2 2	_	3 2	7
2729	N,N-Diethyl-l-hydroxycyclohexaneacetamide	2		7	3 3 4 2 3 3 3
2732	N, N-Diethyl-alpha-hydroxy-alpha-methyl-	2		**	)
	glutaramic acid, gamma-lactone	_	1.	1.	_
2733	N,N-Diethyllauramide	3 2	4	4	3 2
2735	N,N-Diethylmaleamic (fumaramic ?)acid,	2		并	2
	ethyl ester				
2737	N, N-Diethyl-2-methyl-1, 3-dioxolane-2-	3	ц	3	3
	propionamide	_			
2746	N,N-Diethylpiperonylamide	3	2	2	2
2749	N,N-Diethylsuccinamic acid	3 2	3	4	2
2750	N,N-Diethylsuccinamic acid, allyl ester	2	3 2	4	3
	N,N-Diethylsuccinamic acid, n-butyl ester		2	14	2 2 3 4
2751	W. N. Distant and and december 2		7	4	2
2752	N,N-Diethylsuccinamic acid, iso-butyl es		3 3 2	4	7
2753	N,N-Diethylsuccinamic acid, sec-butyl es		2	4	2
2754	N,N-Diethylsuccinamic acid, ethyl ester	2	2	7	Ħ S
2755	N,N-Diethylsuccinamic acid, 2-methoxyethy	yl 2		4	4
	ester			,	
2756	N, N-Diethylsuccinamic acid, n-propyl est	er 2	2	并	2
2757	N, N-Diethylsuccinamic acid, iso-propyl e	ster 2	2	14	3
2761	N, N-Diethyl-p-toluenesulfonamide	2	2	Ħ	3
2763	N, N-Diethylundecylenamide	3	2	2	2
	Diglycolic acid, dipropyl ester	3 2 2		<u>ұ</u>	2
2775	Di-n-heptylacetic acid, glyceryl ester	2		4	2 4
2779	M-n-nepty racette actu, gryceryr estor	2		4	
2786	Di-n-hexylacetic acid			7	7
2794	1,2-Dihydro-2,2-dimethylnaphtho(2.1-b)fu			2	2
2796	Dihydroeugenol	2		5	2
2800	Dihydrosafrole	2	2	2	3
2817	beta-(2,4-Dihydroxyphenyl)propionic acid	2		3	2
2835	2.4-Dimethoxyacetophenone	3	2	3 3 2 3 4 2 4	2 3 3 3 2 4 3 2 4
2843	2,3-Dimethoxycinnamic acid, n-butyl ester	r 2		2	3
2853	2,3-Dimethoxytoluene	2			2
2857	N,N-Dimethyladipamic acid, iso-propyl es		3	4	4
2866	2-(p-Dimethylaminophenyl)-4-methyl-	2	3	2	4
2000	1,3-dioxolane	_			
000		2	2	4	3
2868	N,N-Dimethylanthranilic acid	_			

Table 1 (Continued)

Table					
Item				Mosqui	
No.	: Chemical :	Knock-d	lown; 141	1: Knock-do	wn:Kill
2878	(1, 3-Dimethyl-2-butenylidene)cyanoacetic	7	2	4	74
2010		3	~	4	4
2889	acid, methyl ester	2		7	0
2892	4,7-Dinethyl-1,9-decadienediol-4,7	2		3	2
	5,9-Dimethyldecanoic acid	2	7	4	2
2893	5,9-Dimethyldecen-8-oic acid		3 2	1	2 2 2 2 4
2894	2,2-Dimethyl-1,1-dicarboallyloxypentanone beta, beta-Dimethylglutaric anhydride	2	3	4	2
2910 2912			)	2	11
	beta, beta-Dimethylglycidic acid, ethyl es beta, beta-Dimethylglycidic acid, 2-ethyl-		2	3	2
2913	heryl ester	2	~	)	2
2915		9		7	2
	2,4-Dimethyl-3,5-heptanediol	2		3	2
2933	4,4-Minethyl-2-(p-methoxyphenyl)tetra-	2		-	*
2943	hydrooxazole	•		14	0
	3,6-Dimethyl-4-nonymedicl-3,6	2	2	4	2
2945	3,7-Dimethyl-1,7-octanediol		2	4	4
2950	2,5-Dimethyl-3-octynediol-2,5	2			10
2952	3,6-Dimethyl-4-octynediol-3,6	2		2	4
2953	Dimethylolbenzyl n-butyl sulfone		2	3 3	2
2954	alpha, alpha-Dimethylolbenzyl ethyl sulfon		2	*	2
2956	1,1-Dimethylol-2,4-dimethylcyclohexane	2	2	7	34
2957	1,1-Dimethylol-2,3-dimethylcyclohexene-4	2	2		4
2967	2-(x,x-Dimethylphenyl)cyclohexanol	3	2	7 5 5	2422442522
2968	2,2-Dimethyl-5-phenyl-1,3-dioxolan-4-one	2		2	3
2970	1-(2,5-Dimethylphenyl)-3-ethyl-2-heptanol	. 2	2	*	2
2971	1-(2,5-Dimethylphenyl)-3-ethyl-2-pentanol	. 2		4	2
2973	alpha, beta-Dimethyl-beta-phenylglycidic	2		2	3
	acid, ethyl ester	_		۸.	
2975	alpha, beta-Dimethyl-beta-phenylglycidic	2	2	74	3
	acid, propyl ester			۸.	
2977	2-(2,4-Dimethylphenyl)-1-propanol	2		4	2
2978	2-(2,5-Dimethylphenyl)-1-propanol	2		并	2
2979	4,4-Dimethyl-2-phenyltetrahydrooxasole	2		2	
2981	2,6-Dimethyl-3-iso-propyl-1-heptynediol-3	,6 2		3	2
2982	2,6-Dimethyl-3-iso-propyl-4-octynediol-3,	6 2		3 2	2
2983	2,6-Dimethylpyrone-4	2		2	4
2989	N,N-Dimethylsuccinamic acid, propyl ester	2		3	2
2990	trans-alpha, beta-Dimethylsuccinic acid,	2		14	14
	di-p-butyl ester				
2991	trans-alpha, beta-Dimethyl succinic acid,	2	2	4	3
	di(2-ethyl-n-butyl) ester				
2992	Dimethyl sulfite	2		2	3
3004	2,4-Dimethyl-1,2,3,6-tetrahydrobenzaldehy	de 2	2	74	2
	2-nitro-2-ethyl-1,3-propanediol acetal				
3005	2,6-Dimethyl-1,2,3,6-tetrahydrobenzalde-	3	2	3	2
	hyde 2-nitro-2-methyl-1,3-propenediol				
	acetal				
3007	2,6-Dimethyl-1,2,3,6-tetrahydrobenzal-	2		4	14
	dehyde oxime				
3016	N,N-Dimethylundecylenamide	4	2	并	4
3023	3,5-Dinitrobensoic acid	2	2	2	3

Table 1 (Continued)

Item	:		flies :		
No.	: Chemical :	Knock-do	wn:Kill:E	inock-do	wn:Kill
3026	Dinitro-o-sec-butylphenol	并	2	4	2
3030	3,5-Dinitro-o-cresol	2	2	3 2	并
3031	4,6-Dinitro-o-cresol ethyl ether	2	2	2	3
3032	4,6-Dinitro-o-cresol methyl ether	2	2	3	jt.
3057	2,4-Dinitrophenyl n-propyl ether	2	2	3 2	4
3073	1,4-Diorane	2	3	2	2
3074	1,4-Dioxaspiro(4.5)decane-2,3-dicarboxyli	c 2		3	2
	acid, dimethyl ester				
3076	1,4-Dioxaspiro(4.4)nonane-2,3-dicarboxyli	c 2		4	3
	acid, diethyl ester				
3078	1,3-Dioxolane-2,2-diacetic acid, diethyl	2		4	3
	ester				
3079	1,4-Dioxolane-2-methanol,5-furyl- plus	2		4	4
	1,5-dioxan-3-ol,6-furyl- (mixture)				
3082	1-(3,4-Dioxymethylenephenyl)-2-methyl-1,3	- 4	4	4	4
J	propanediol methylene ether				
3090	1,1-Diphenylacetone	2	3	4	2
3100	Diphenylene sulfide	2	3 2	4	2
3104	Di-(2-phenylethyl)amine		2	4	14
3119	1,2-Diphenylpropene	3 2	2	14	,
3120	1,3-Diphenyl-1-propanol	2	2	2	2 4 2 3 2 3 2 2 4
3123	Di-(3-phenylpropyl) ether	2	2	ĬĮ.	9
3125	Diphenyl sulfide	2	_	4	7
	Di-(omega-piperidinopropyl)ketone	2			2
3133	Dipivaloyl	2	3	3 2 4	2
3134			)	2	}1
3139	N,N-Di-iso-propyladipamic acid, ethyl est	5		1,	4
3140	N,N-Dipropyladipamic acid, methyl ester			4	并
3141	N, N-Di-iso-propyladipamic acid, methyl es	5	2		
3146	N,N-Dipropylcinnamamide		2	3	3 2
3149	Di-iso-propyl-p-cresol ethylene glycol	2		3	2
	monoether			١.	
3152	Di-iso-propyl ethynyl carbinol	2		jt	2
3153	N,N-Dipropylglutaramic acid, ethyl ester	3	2	2	3
3154	N,N-Di-iso-propylglutaramic acid,	2		4	3
	ethyl ester				
3155	N, N-Dipropylglutaramic acid, methyl ester	3	2	3	3
3157	N, N-Di-iso-propylglutaramic acid,	2	3	4	1
	propyl ester				
3159	N, N-Di-iso-propyl-l-hydroxycyclohexane-	并	并	并	3
	acetamide				
3160	N,N-Dipropyl-alpha-hydroxy-alpha-methyl	并	2	并	2
	glutaramic acid, gamma lactone				
3161	N,N-Dipropyl-3-hydroxy-3-methylvaleramide	4	<u>}</u>	4	14
3162	N,N-Dipropyl-4-hydroxyvaleramide	2		4	2
3165	N,N-Dipropyl-2-methyl-1,3-dioxolane-2-	2	2	3	4
	propionamide	_			·
3173	N,N-Dipropylsuccinamic acid, allyl ester	14	4	4	4
3174	N,N-Dipropylsuccinamic acid, sec-butyl	4	3	4	4
7-1-	ester	•			
	Q9 09T				

Table 1 (Continued)

	2 (Outstander)				
Item				Mosquit	
No.	: Chemical	knock-do	own:Kill:K	nock-dow	n:Kill
3175	N,N-Di-iso-propylsuccinamic acid, sec- butyl ester	ކ	2	Ħ	14
3176	N,N-Dipropylsuccinamic acid, ethyl ester	14	3	2	2
3177	N,N-Di-iso-propylsuccinamic acid, ethyl ester	3	ž	lţ.	74
3178	N,N-Di-iso-propylsuccinamic acid, 2-methoxyethyl ester	2	2	14	jt
3179	N,N-Dipropylsuccinamic acid, methyl ester	2	2	3	14
3180	N,N-Di-iso-propylsuccinamic acid, methyl ester	2	3	Ħ	7
3181	N, N-Di-n-propylsuccinamic acid, n-propylester	4	3	<b>并</b>	2
3182	N, N-Di-n-propylsuccinamic acid, iso-propy ester	71 4	2	并	2
3183	N,N-Di-iso-propylsuccinamic acid, propylester	Ħ	3	4	3
3184	N, N-Di-iso-propylsuccinamic acid, iso-propyl ester	并	3	<b>并</b>	3
3189	N,N-Dipropyl-p-toluenesulfonamide	2	3	3	3
3202	Di-(tetrahydrofurfuryl)amine	2		3 2	3 2 3
3202a	Dixanthogen	2	2	计	2
3212	Dodecane-1,12-dicarboxylic acid, diethyl ester	并	2	3	
3213	1,2-Dodecanediol	2		3	2
3218	Dodecanone-6 oxime	2	2		2
3225	Dodecine-6	2		并	2 2 2 2 2 3 4
3230	Dodecyl benzyl ether	2		3 3 3	2
3235	Dodecyl ethyl ether	2	0	3	2
3241	Dodecyl phenyl ether	2	2	3	2
3247	N-Dodecyl-tri-iso-butenylsuccinimide	2	14	4	3
326 <sup>4</sup> 3265	Enanthic acid, glycol monoester	2	4	4	4
3266	Enanthic acid, 1,5-pentanediol diester Enanthic acid, 1,2-propanediol monoester	2		4	并
3267	1,4-Endomethylene-5-cyclohexene-3-	2	7		
7201	carboxylic acid, cyclohexyl ester	_	3	2	3
3269	1,4-Endomethylene-5-cyclohexene-3-carboxylic acid, furfuryl ester	2	3	2	3
3271	1,4-Indomethylene-5-cyclohexene-3-carboxylic acid, phenethyl ester	3	ц	Ц	3
3281	Epoxymethylphenylacrylic acid, ethyl este	r 2		2	4
3286	Erucic acid, methyl ester	2		7	1
3287	Erucyl alcohol	2	3	3	
3291	alpha-Ethoxalyllauric acid, ethyl ester	2	)	4	5 5
3297	p-Ethoxybenzaldehyde	2		2	Jī
3298	o-Ethoxybenzoic acid	2		4	2
3304	p-Ethoxycinnamic acid, athyl ester	2		1	2
3306	4-Ethoxydiphenylmethene	2	2	4	2
3310	2-(2-Ethoxyethyl)hexahydro-1,3-benzodioxo		2	3	2
1	,				

Item				Mosqui	
No.	Chemical :I	mock-d	own:Kill	Enock-do	m:Kil
	alaba Mikamakhal Guenbalaniania asid	2		14	0
3313	alpha-Ethoxyethyl-2-pentylmalonic acid,	<		**	2
W 10/2 AT	diethyl ester		0	14	4
3315	1-Kthoxy-2-hydroxyindane	2	5		
3316	Ethoxymethylenemalonic acid, diothyl ester	2		2	3 2
3318	o-Ethoxyphenethyl alcohol	2		2	2
3319	p-Ethoxyphenethyl alcohol	2		3	2
3321	2-(p-Ethoxyphenyl)-5-ethyl-6-n-propyl-	2	2	2	3
7720	1,3-dioxans	0	9	4	
3322	3-Ethoxyphthalide	2	3	¥	2
3323	3-Ethoxypropionaldehyde dibutyl acetal	2	2		2
3330	alpha-Ethoxy-alpha-toluic acid		2	3	2
3331	alpha-Ethoxy-alpha-toluic acid, ethyl ester				3334334
33 <b>39</b> 3341	N-Ethylacet-m-toluidide	2		2	esp.
5541	Ethylacetylmalonic acid, diethyl ester	2	14	2 ù	2
3352	Ethylbenzylaniline	2	4	14	2
3359	(2-Ethylbutylidene) malonic acid, diethyl ester	<i>e.</i>		44	44
7760		2			-
3362	2-Ethylbutyraldehyde dipropionate	2	**	2	5
3365	N-Ethyl-N-(2-butroxyethyl)butyramide	2	3 3 3	3	3 2 3
3365	2-Ethylbutyric acid, 1,4-butanediol diester	2	3	•	3
3367	2-Ethylbutyric acid, glycol diester	2	3	Ħ	
3368	2-Rthylbutyric acid, pentanediol-1,5	4	3	4	2
	diester		-	۸.	_
3369	2-Ethylbutyric acid, 1,2-propanediol	2	3	7\$	3
	diester		_		9.
3370	alpha-Ethylbutyric acid, 1,3-propanediol	2	2	2	并
	diester				
3371	2-Ethylbutyric acid, 1,2-propanediol	2		3	3 .
	monoester				
3372	2-Ethylbutyric acid, 1,2,3,4-tetrahydro-	2		jt.	2
	2-naphthyl ester				
3373	2-Ethylbutyric acid, triethylene glycol	2	3	2	2
	diester				
3374	N-Ethyl-N-n-butyrylaniline	3	3	jt.	4
3386	2-Ethylchronone	2	3	h	2
3389	Ethylcrotylmalenic acid, diethyl ester	2		ħ.	3
3399	Bthylene glycel	2		2	3
3399 3400	Ethylene glycol bis-(beta-cyanoethyl) ether		2		2
3401	Ethylenetetracarboxylic acid, tetraethyl	2	2	3	2
J	ester				
3407	2-Ethylhexanal-2-nitro-2-sthyl-1,3-	2	2	4	2
).01	propanediol acetal				
3408	2-Ethylhexanal 2-nitro-2-methyl-1,3-	2	2	14	3
,	propanediol acetal				
3411	3-Ethylhexanediol-2,4	2	2	2	3
3412	2-Sthylhexanol	2	3	2	3 2
TTAL	m-m and and annual		1	offic .	2
2H1 H	2-Rthyl-2-herenal arise	2		3	-
3414 3419	2-Ethyl-2-hexenal oxime 2-Ethylhexoic acid, 1-ethynylcyclohexyl	2		3	2

Table 1 (Continued)

Item		House	flies	Mosqui	1088
No.	: Chemical	:Knock-do	wn:Klll:	knock-dor	wn:Kil
3420	2-Ethylhexoic acid, 1,2-indanediol diester	2	2	3	2
3421	2-Ethylhexoic acid, 2-nitro-2-ethyl-1,3- propanediol diester	2	2	7	2
3422	2-Ethylhexoic acid, triethylene glycol diester	2	2	2	4
3423	2-(2'-Ethylhexoxy)cyclohexanol	2		3	3 3 2
3427	2-Ethylhexylcyanoacetic acid, methyl este	r 2			3
3433	(2-Ethylhexylidene)acetoacetic acid, ethyl ester	2		3	
3437	N-(2-Ethylhexyl)phthalimide	4	3	4	3 3 3
3448	Ethylidenemalonic acid, diethyl ester	2		4	3
3451	2-Ethyl-2-methyl-1,3-dioxolane-4,5-dicarboxylic acid, dimethyl ester	2		Ţł	3
3453	2-Ethyl-3-methyl-2-hexenenitrile	2		7t 5	3
3454 3454	6-Ethyl-2-methyl-4-oxo-2-cyclohexene-1-carboxylic acid, ethyl ester	2	<i>j</i> ‡	Ţŧ	3
3456	alpha-Ethyl-beta-methyl-beta-phenylglycid acid, ethyl ester	ic 2		3	3
3457	alpha-Ethyl-beta-methyl-beta-phenylglycid acid, methyl ester	ic 2		3	3
3463	3-Ethyloctanediol-2,4	2		2	3
3464	4-Ethyl-3,5-octanediol	2			3 3 2 2
3465	6-Ethyl-3,5-octanediol	2		3 3 4	2
3467	Ethyl-sec-octylmalonic acid, diethyl este (dextro)			Ħ	2
3468	Ethyl-sec-octylmalonic acid, diethyl este (levo)	r 2		4	2
3469	Ethyl-sec-octylmalonic acid, diethyl ester (racemic)	r 2		4	2
3475	N-Ethyl-N-phenylcaprylamide	14	2	4	2
3476	N-Ethyl-N-phenylcarbamic acid, butyl este	r 2	2	2	3
3481	alpha-Ethyl-beta-phenylglycidic acid, all ester		2	<b>j</b> †	3
3484	beta-Ethyl-beta-phenylglycidic acid, meth	yl 2	2	2	4
3486	beta-Ethyl-beta-phonylglycidic acid, propyl ester	2	2	2	14
3487	beta-Ethyl-beta-phenylglycidic acid, iso-propyl ester	2		Ħ	14
3488	N-Ethyl-N-phenylglycine, ethyl ester	2		14	7
3497	N-Ethylpropion-o-toluidide	2		2	3 4 4
3499	N-Ethylpropion-p-toluidide	2		4	4
3500	N-Ethyl-N-propionylaniline	2		2	4
3503	2-Ethyl-3-propylacrolein 2-nitro-2-ethyl-3-propanediol acetal		2	4	2
3512	1-Ethyl-1,2,3,4-tetrahydro-2-naphthol	4	2	4	14
3519	alpha-Ethylvaleric acid, allyl ester	2	4	2	·
3520	Ethylxanthic acid, ethyl ester	3	LIBRA		2
		_	LIBRA	KY	
		STAT	TE PLAI	NT BOA	KD

Table 1 (Continued)

No. 3 Chemical sknock-down:Kill  3522 Ethylkanthoacetic acid, isobornyl ester 2 3 3536 Fluorenone 2 2 3543 Formanilide 2 2 3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3555 Q-Formotoluide 2 2	2 2 4 2 3 2 2 3
3522 Ethylkanthoacetic acid, isobornyl ester 2 3 3536 Fluorenone 2 2 3543 Formanilide 2 2 3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3555 Q-Formotoluide 2 2	2 2 4 2 3 2 2 3
3543 Formanilide 2 2 2 3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3555 g-Formotoluide 2 2	4 2 3 2 2 3
3543 Formanilide 2 2 2 3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3555 g-Formotoluide 2 2	4 2 3 2 2 3
3543 Formanilide 2 2 2 3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3555 g-Formotoluide 2 2	3 2 3
3551 Formic acid, 1,6-hexanediol diester 2 2 3553 Formic acid, lauryl ector 2 2 3556 Formic acid, oleyl ester 2 2 3555 g-Formotoluide 2 2	2 3
3553 Formic acid, lauryl ecter 2 2 3556 Formic acid, oleyl ester 2 2 3558 g-Formotoluide 2 2	
3556 Formic acid, oleyl ester 2 2 3558 o-Formotoluide 2 2	3 3
3553 g-Formotoluide 2 2	2 3
	3 3
3560 W-(2-Formoxyethyl)formanilide 4 2	3 3 2 3 3 4 2 4
3573 Fumaric acid, diethyl ester 2	2 4
	2 3
3591 Furfurylidenescetic acid, a-anyl ester 2 3 3593 Furfurylidenescetic acid, ethylene glycol 2 3	2 2
methyl ether ester	
3605 beta-Furfuryloxypropionitrile 2	4 3
3609 Furoic acid, cyclohexyl ester 2 2	4 2
3611 Furoic acid, phenyl ester 2	4 3
3618 Furylacrylic acid, benzyl ester 2	4 2
3620 Furylacrylic acid, cyclohexyl ester 3 2 3631 l-Furyl-2,2-dimethyl propylene glycol-1,3 2	4 5
3631 1-Fury1-2, 2-dimethyl propylene glycol-1,3 2	2 3
3634 2-Furyl-5-ethyl-5-nitro-m-dioxane 2 2	2 3 4 3 3 2 2 4
3640 1-Furyloctene-1-one-3 4 2	3 2 2 4 3 2 4
3643 2-(2-Furylvinyl)-2-methyl-1,3-dioxolane 2	2 4
3645 G-650 (sorbitol ricinoleate, technical) 2	3 2 4
3657 Geranylacetone 2 3660 Glutaric acid, di-n-butyl ester 2 2	3 2
	3 2
	jt 5
3667 Glutaric acid, monoethyl ester 2 3 3668 Glutaric acid, monopropyl ester 2 2	4 2
3669 Glutaric anhydride 2 3	3 3
3669 Glutaric anhydride 2 3 3671 dl-Glyceric acid, ethyl ester 2 2	3 3 2
3673 Glycerine 2 3	
3698 Glycolic acid, beta-methoxyethyl ester 2 2	3 2
3701 Guaiacol 2 3	2 4
3713 10-Hendecenoic acid, n-butyl ester 2	4 3
3714 10-Hendecenoic acid, n-propyl ester 2	4 2
3715 1,1,1,2,3,3,3-Heptachloro-2-fluoropropane 2	3 4
3718 n-Heptaldehyde 2 2	3
3719 Heptaldehyde dibutyl acetal 2 3 3721 Heptaldehyde glyceryl butoxy acetal 4 3	3 4
	4 2 4 2 2 4
3725 Heptamethylene glycol 2	4 2
3726 1,2-Heptanediol 2	2 4
3728 Heptanol-2 2	3 k
3729 (1-Heptenyl) ethylmalonic acid, diethyl ester 2	4 2
3731 beta-(3-Hepten-3-yl)glycidic acid, methyl 2 ester	
3733 (1-Heptenyl)methylmalonic acid, diethyl 2 ester	jt jt
3736 n-Heptoic acid, 2-n-amyl-3-hydroxynonyl 2 ester	4 2

Table 1 (Continued)

74		. 77		26	
Item				Mosquito	
No.	Chemical	:Knock-down	: KTTT	Knock-down	Hear
7770	N. Hambull as hashall			10	
3738	4-Heptylcatechol	2	-	4	2
3740	n-Heptylcyanoacetic acid, ethyl ester	2	3	٦ 5	
3744	Heptylic acid, 1,5-pentanediol monoester		•	4	4
3745	n-Heptylic anhydride	2	2	4	2 4
3746	n-Heptylidenemalonic acid, diethyl ester		3		4
3748	n-Heptylmalonic acid, diethyl ester	2		4	3
3749	2-n-Heptylnonanol-l	2		4	4
3754	2-Heptynoic acid	2		4	2
3756	2-Heptynoic acid, n-amyl ester	2		4	2
3757	2-Heptynoic acid, iso-amyl ester	2		4	2
3759	2-Heptynoic acid, cyclohexyl ester	2		4	2
3761	2-Heptynoic acid, 3-octynyl ester	2	2	并	2
3767	Hexachlorobutadiene	2		2 14	3
3775	Hexadecane	2	2	4	
3777	n-Hexadecanenitrile	2		3	2 2 2
3780	1-Eexadecene	2		4	3
3783	Hexaethylene glycol	2	2	4	2
3783a	Hexaethyl tetraphosphate	2	2	4	2
3787	Hexahydrobenzoic acid, diethylene glycol monoester	2		Ţŧ.	4
3791	Hexahydrobenzoic acid, methyl-iso-butyl- ethynyl carbinyl ester	2		2	并
3792	Hexahydrobenzoic acid, methylethylethyny: carbinyl ester	1 2		2	3
7707	Hexahydrobenzoic acid, 2-octynyl-l ester	2		7	2
3793	p-Hexahydrobenzylcyclohexanol	2	2	3	4
3795 3797	Hexahydro-2-(p-methoxyphenyl)-1,3-	Ĭį.	2	14	3
2121	benzodioxole	7	_	7	)
3800	Hexahydrophthalic acid, di-n-butyl ester			14	2
3805	Hexahydrophthalic acid, dimethyl ester	2	2	2	7
3806	Hexahydrophthalic acid, di-n-propyl ester		2	7	3 2
3811	Hexaldehyde glyceryl acetal	2	3	3 2	2
3815	N,N'-Hexamethylenedipiperidine	2	)	3	2
3819	1,5-Hexanediol			4	4
3821	(1-Hexenyl)ethylmalonic acid, diethyl es	ter 2		4	4
3822	(1-Hexenyl)methylmalonic acid, diethyl es			4	4
3825	alpha-n-Hexylcinnamaldehyde	2		2	
3826	4-Hexylcyclohexanediol-1,3	2	2	7	3 4
3829	n-Hexylidenemalonic acid, diethyl ester	5	ح	4	4
	o-n-Heryloxybenzaldehyde	2	7		7
3830		2	3	7 5	)
3831	o-n-Hexyloxybenzyl alcohol	2	۲.		3222223
3836	Hexyne-3-diol-2,5			3 3 4	)
3837	Herryn-2-cic acid, cycloheryl ester	2	7	٦	2
3841	Homophthalic acid, diallyl ester		3	4	2
3843	Homophthalic acid, dimethyl ester	2	0		2
	Homophthalic acid, di-n-propyl ester	2	2	3	2
3845	Homoveratric acid, methyl ester	2	<	4	5

Table 1 (Continued)

	1 (continued)				
Item		House	flies:	Mosqui	toes
No.	: Chemical	ADOCK-C	own:Kill:	TDOCK-GO	n:K111
3846	Hydnocarpus wightiana acids, mixed ethyl esters	2		3	2
3852	m-Hydrobenzoic acid	2		14	2
3856	Hydrocinnamic acid	2	3		با 5 5
3864	Hydroquinone diphenyl ether	2	3 <b>2</b>	3 2	4
3873	alpha-Hydroxy-beta-acetoxy-iso-butyric	2		3	3
3875	acid, iso-amyl ester 1-Hydroxy-2-acetoxyindan	2		2	4
3924	p-Eydroxy-iso-butyrophenone	2	7	7	2
3927	2-Hydroxycaprylic acid, n-butyl ester	2	3 2	34	2
3933	Hydroxycitronellal	2	2	7	2
3934	Hydroxycitronellal dimethyl acetal	. 4	2	34	2 2 3 3 3 4
3935	Hydroxycitronellal oxime		2	2	3
3936	Hydroxycitronellic acid	3 2	3	2	3
3937	Hydroxycitronellol	2	3 2	2	3
3939	1-Hydroxycyclohexaneacetic acid, iso-amyl ester	2	4	Ţŧ	4
3940	1-Hydroxycyclohexaneacetic acid, cyclopent	ty1 3	4	4	3
70)17	ester 1-Hydroxycyclohexanecarboxylic acid,	14	2	14	4
3941	acetonyl ester	·			
3942	1-Hydroxycyclohexanecarboxylic acid, 2-butoxyethyl ester	2	2	4	4
3943	1-Hydroxycyclohexanecarboxylic acid,	2		3	<b>j</b> t
3945	2-ethoxyethyl ester 1-Hydroxycyclohexanecarboxylic acid,	2		3	4
	2-methoxyethyl ester				
3946	1-Hydroxycyclohexanecarboxylic acid, tetrahydrofurfuryl ester	2	2	3	jt
3949	1-Hydroxycyclohexylacetic acid, n-butyl es	ster 2		4	2
3951	2-Hydroxy-1-cyclohexylacetic acid, lactone			3	2
3952	l-Hydroxycyclohexylacetic acid, n-propyl ester	2		4	2
3957	3-(1-Hydroxycyclohexyl)propanol-1	2	2	4	2
3958	3-(1-Hydroxycyclohexyl)-2-propen-1-ol	2		4	2 2
3959	1-Hydroxycyclopentaneacetic acid, cyclohexyl ester	2	2	74	2
3960	1-Hydroxycyclopentanecarboxylic acid,	2		4	4
	2-butoxyethyl ester				
3961	1-Hydroxycyclopentanecarboxylic acid, tetrahydrofurfuryl ester	2		3	4
3965	2-(beta-Hydroxyethoxy)cyclohexanol	2		4	2
3966	N-(2-Hydroxyethyl)acetamide	2	3	3	3
3967	N-2-Hydroxyethylacetanilide	2	)	3 3 3 3 3	2 3 3 4 2 4
3968	beta-Hydroxyethyl o-allyl-p-cresol ether	2 2 2		3	4
3969	beta-Hydroxyethyldodecylamine	2	2	3	2
3972	N-Hydroxyethyllactamide	2	۲ 2	3	4
3975	N-beta-Hydroxyethyl-4-methyl-1,2,3,6-	2	2	4	2
2213	tetrahydrophthalimide				

Table 1 (Continued)

			02.4	24	
Item		House	flies:	Mosquit	088
No.	: Chemical	Anock-d	own:Kill:K	nock-dow	n:Kill
3976	3-Hydroxy-4-ethyloctanoic acid, allyl est	7	2	24	14
	3-Hydroxy-4-ethyloctanoic acid, methyl	ter 3	2	*	2
3977	ester	2		3	2
3979	3-Hydroxy-1-ethyl-1-octenoic acid, allyl	2		14	14
כוככ	ester	2		4	4
3981	3-Hydroxy-4-ethyl-4-octenoic acid, propyl	2	3	2	2
3302	ester	_	)	2	<
3983	N-(2-Hydroxyethyl)phthalimide	2	2	7	7
3984	H-beta-Hydroxyethyl-1,2,3,6-tetrahydro-	2	2	3	3 2
3304	phthalinide	2		)	2
3995	beta-Hydroxy-beta-methyladipic acid, gamm	2		3	2
1111	lactone, methyl ester			)	2
4002	1-Hydroxymethylethynyl-1-cycloheranol	2		4	2
1000	(25% solution in triacetin)	No.		7	_
4006	N-(1-(Hydroxymethyl)-1-methyl)ethylacetan	ide 2	3	4	7
400g	M-(1-Hydroxymethyl)propyl)acetamide	2	,	4	3
4010	3-Hydroxy-2-naphthoic acid, n-amyl ester	2	3		Ĭ.
4011	3-Hydroxy-2-naphthoic acid, n-butyl ester		3 3	3	3
4012	3-Hydroxy-2-naphthoic acid, n-propyl este			3 3 3	3 4 3 4 4
4018	2-(o-Hydroxyphenyl)-1,3-dioxolane	2	3	3	71
402g	M-beta-Hydroxypropyl-1-methyl-1,2,3,6-	2	3	Į.	2
.0_0	tetrahydrophthalimide	_	_	*	_
4038	2-Hydroxyvaleric acid	2		14	2
4039	2-Hydroxyvaleric acid, cyclohexyl ester	2		2	3
4049	1-Indanol	5		14	3 4
4058	o-Iodobenseic acid, methyl ester	2		14	4
4077	Isodehydroasetic acid, ethyl ester	5		4	7
4084	Isothymol ethylene glycol monoether	2	3	4	3
4085	Itaconic acid, diethyl ester	2	,	14	
4088	alpha-Ketoadipic acid, diethyl ester	2		14	3 2 2
4097	4-Ketopimelic acid, diethyl ester	2	2	4	2
4115	Lactic acid, beta-chloroethyl ester	2	14	2	2
4116	Lactic acid, crotyl ester	5	2		2
4129	Lactic acid, 2-ethylheryl ester	2	2	3	
4136	Lactic acid, methylamylmethyl ester	2	2	14	2 2 2 2 2 2 2 2
4143	Lactic acid, 1,3-propanediol diester	5 5	_	4	2
4145	Lactic acid, sorbitol ester	2	2	14	2
4159	Lauric acid, amyl ester	2	2	14	2
4161	Lauric acid, butoxyethyl ester	2	3	14	2
4164	Lauric acid, diethylene glycol monoester	2	3	2	2
4165	Lauric acid, 2,5-dimethyl-1,1-dimethylol-			3	2
	oyclohexane diester	_			_
4168	Lauric acid, ethylene glycol monoethyl	2	2	4	2
	ether ester	_	_	•	_
4183	Lauric acid, polymerized glycol diester	2	2	3	2
4186	Lenric acid, sorbitol ester	2	3	3	2
4193	beta-Lauroyltetralin	2		4	2
4198	Laurylcyclohexylamine	2	2	4	14
		_			

Table 1 (Continued)

Th and		77	02.1		
Item			flies :		
No.	: Chemical	Knock-do	wn:Kill:	knock-do	m:K111
חס בול	Tanamalathulmalamia asid diathul astam	0		11	~
4199	Laurylethylmalonic acid, diethyl ester	2		д	3
4213	Levulinic acid, cyclohexyl ester	2		3 2	4
4222	Levulinic acid, sodium salt		_	2	4
4244	Maleic acid, di-2-(2-bromo-4-ethylphenoxy)	)- 2	3	2	2
١	ethyl ester			_	
4251	Maleic acid, di-beta-ethoxyethyl ester	2	2	3	2
4270	dl-Malic acid	2	4	3 2 4	2
4272	dl-Malic acid, diallyl ester	2			2
4275	levo-Malic acid, di-n-butyl ester	2	2	3 3 4	2 2 2 2 2 2 3
4277	dl-Malic acid, di-sec-butyl ester	2	2	3	2
4281	dl-Malic acid, dipropyl ester	2	2	4	2
4282	dl-Malic acid, di-iso-propyl ester	2		3 2	2
4289	Malonic acid, dipropyl ester	2		2	3
4293	dl-Mandelic acid	2	3	2	
4293a	Melinis minutiflora	2 2 2	3	2	7
4313	Mesitaldehyde	2	4	2	
4314	Mesitylacetonitrile	2		4	2
4322	Methacrylic acid, 2-(2-chlorophenoxy)ethyl		2	74	2
, )	ester	_			
4340	Methallyl p-methoxybenzyl ether	2	2	4	2
4344	o-Methallyloxybenzaldehyde	2	_	2	3
4347	p-Methallyloxycinnamic acid, n-butyl ester				ĬĮ.
4355	Methallyl beta-phenoxyethyl ether	. 2		3	2
11762	2-Methoxy-1-acetonaphthone	2 2		4	23423442242324
4362	4-Methoxy-1-acetonaphthone	2		4	TI.
4363		2 2 2	2	4	li
4367	p-Methoxyacetophenone oxime	2	2	4	2
4372	p-Methoxy-alpha-acetoxyacetophenone	2			2
4374	p-Methoxybenzaldehyde dibenzyl mercaptal	2 3 3 3 2 2	2	3 4	)1
4378	Methoxybenzoic acid, 3-butynyl-1 ester	2	2 3 2 2		7
4379	o-Methoxybenzoic acid, cyclohexyl ester	2	)	2 4	7
4381	p-Methoxybenzophenone	2	2		)
4384	4-Methoxybenzyl cyclohexyl ether	2	~	3	),
4386	p-Methoxycinnamaldehyde				7
4390	p-Methoxycinnamic acid, 2-ethyl-n-butyl	2		3	4
\	ester			0	4
4391	<u>p</u> -Methoxycinnamic acid, 2-ethyl- <u>n</u> -hexyl	2		2	4
	ester			_	
4395	trans-o-Methoxycinnamic acid, iso-propyl	2	2	3	2
	ester				
<b>执</b> 0升	4-Methoxydiphenylmethane	2		4	74
4405	2-(2-Methoxyethoxy)-1-phenylethanol	2		3	4
1410g	p-Methoxyhydrocinnamic acid, ethyl ester	2 2 2		3 3 4 4	2 2 4 4 2 4
4409	p-Methoxy-alpha-hydroxyacetophenone	2		4	2
4411	1-Methoxy-2-hydroxytetralin			4	4
4412	p-Methoxymethoxybenzaldehyde	2		3	4
4418	2-Methoxy-5-methylbenzophenone	2			2
孙50	4-Methoxymethyl-2-methyl-1,3-dioxolane-2-	2		3	4
7760	propionic acid, ethyl ester	_			
71755	2-Methoxy-5-methylpropiophenone	5	2	4	3
7766	S-me orrows - J-me orra the obtobrious	_	_	•	

Table 1 (Continued)

Thom		House	27100 1	Magnific	
Item		Knock-do	flies:		
No.	CHEMICAL	Anock-do	MITTALL	THOCK - TO	MI: KIII
111158	o-Methoxyphenoxyacetic acid	2		4	7
11430	o-Methoxyphenoxyacetic acid, ethyl ester	2		4	3 3 2 4 2 3 3
4431	p-Methoxyphenoxyacetic acid, ethyl ester	2			2
11132	4-p-Methoxyphenyl-2-butanol	2	2	3	'n
1433	2(p-Methoxyphenyl)cyclohexanol (trans)	2	2		2
1435	2-(p-Methoxyphenyl)-5,5-dimethyldioxane-1,		-	3	7
मम्भ	2-(p-Methoxyphenyl)-5-ethyl-6-n-propyl-	2	3	14	7
	dioxane-1,3	_	)	7	)
护护计工	p-Methoxyphenyl furyl ketone	2		14	2
14445	1-(p-Methoxyphenyl)-2-methyl-1,3-propanedi		3	2	3
	methylene ether		,	_	
4443	3-Methoxy-3-phenylphthalide	2	2	3	2
4466	4-Methoxyvalerophenone	4	2	3	3
4469	Methylacetoacetic acid, ethyl ester	2	2		4
4480	N-(1-Methylamyl)benzamide	2	2	3	3
मिरिडिर्मि	2-Methyl-2-p-anisyl-m-dioxane	2		2 3 4	2 3 4 3 2 4 3 3
4486	N-Methylanthranilic acid, allyl ester	2		耳	. 4
4490	N-Methylanthranilic acid, n-propyl ester	2		2	3
14499	beta-(p-Methylbenzoyl)propionic acid,	2	2	4	3
	allyl ester				
4500	alpha-Methyl-alpha-benzoylpropionic acid,	2		3	2
	ethyl ester				
4505	Methyl benzyl sulfone	2		3	7
4507	3-Methyl-41-bromodiphenyl	2	4	3 4	3
4508	Methyl-(beta-bromoethyl)malonic acid,	2		2	3
	diethyl ester	_			
4517	(1-Methylbutylidene)cyanoacetic acid,	2		2	3
	ethyl ester			_	
4520	Methyl iso-butyl ketone 2-nitro-2-ethyl-	2		4	2
	1,3-propanediol ketal				
4521	Methyl iso-butyl ketone 2-nitro-2-methyl-	2	2	3	2
	1,3-propanediol ketal				_
4523	N-Methyl-n-butyranilide	3	2	2	2
4526	2-Methyl-2-carboethoxycyclohexanone	ź	3	2	
4528	2-Methyl-3-chloro-4,6-di-iso-propylphenoxy			4	2
	ethoxyethyl chloride				
4530	beta-Methyl-beta-p-chlorophenylglycidic	2	3	4	4
	acid, allyl ester				
4531	beta-Methyl-beta-p-chlorophenylglycidic	2		4	4
•	acid, ethyl ester		•		
4532	beta-Methyl-beta-p-chlorophenylglycidic	2	2	4	并
	acid, methyl ester				
4533	beta-Methyl-beta-p-chlorophenylglycidic	2		3	3
\ _ \	acid, propyl ester				
4534	alpha-Methylcinnamic acid, allyl ester	4	2	4	2
4535	alpha-Methylcinnamic acid, n-butyl ester	3	2	4	2
4536	alpha-Methylcinnamic acid, ethyl ester	2	2	3	2
	(trans)				

Table 1 (Continued)

Table	1 (Continued)				
Item		: Hous	e flies	: Mosqui	toes
No.	Chemical	:Knock-	down:Kill	:Knock-do	wn:Kill
4537	alpha-Methylcinnamic acid, n-propyl	2	2	4	2
	ester (trans)				
4539	Methylcinnamyl alcohol	2		3	5 5 5
4541	6-Methylcoumarin	2	2	3 3 2	2
4544	Methylcyanoacetic acid, ethyl ester	2	2	2	
4545	beta-Methyl-alpha-cyano-gamma-carboethoxy	- 2		4	2
	butyric acid, allyl ester				2
4546	beta-Methyl-alpha-cyanoglutaric acid,	2	4	4	2
	diethyl ester				
4547	beta-Methylcyanosuccinic acid, diethyl es			3 4	4
4559	4-Methylcyclohexylcyanoacetic acid, ethyl	. 2		4	3
	ester				
4563	2-Methyl-3,5-decanediol	2		4	2
4568	2-Methyl-2,5-diethyl-5-nitro-m-dioxane	2		2 4	3
4570	2-Methyl-5-dimethylaminobenzyl decyl ether	r 2 ne 2	2		2
4571	Methyl alpha, alpha-dimethylolbenzyl sulfor	ne 2	2 2 2	4	4
4573	2-Methyl 1,3-dioxolane-2-acetic acid,	4	2	4	2 3 2 4 3
	cyclohexyl ester				
4576	2-Methyldiphenylether	2	2	3	2
4581	p,p!-Methylenedianiline	2	2	3 2 4	2 4
4585	3,4-Methylenedioxycinnamic acid, ethyl es	2 ter 2 2	2 2 2	4	4
4587	1-(3,4-Methylenedioxyphenyl)-1-acetoxy-	2	2	4	2
	butene-3				
4588	2-(3,4-Methylenedioxyphenyl)-4,4-diethyl-	3	4	4	4
	1,3-dioxane				
4594	alpha-Methylepoxycyclohexylideneacetic ac	id, 3	2	3	4
	allyl ester	,			
4596	alpha-Methylepoxycyclohexylideneacetic aci	id, 2	2	2	3
. , , , ,	propyl ester	, -	_	_	
4599	4-Methyl-4*-ethylbenzophenone	2	3	3	2
4600	2-Methyl-2-ethyl-5-hydroxymethyl-5-nitro-	2	3 2	3	2
1000	m-dioxane	_	_		_
4602	2-Methyl-5-ethyl-5-nitro-m-dioxane	2		3	2
4604	2-Methyl-7-ethyl-3,4-undecanediol and	2		杠	3
7007	2-methyl-7-ethyl-4,5-undecanediol, mixtu			•	
4605	N-Methylformanilide	2		2	7
4608	beta-Methylglycerin monochlorohydrin	2		2 3 2 4	3 2 3 2 4
4611	4-Methyl-1,7-heptadiene-4-ol	2		7	2
4612		2 2 2 2	2	2	7
4617	2-Methyl-3,5-heptanediol	2	2	) <u>ı</u>	9
4618	4-Methylheptanol-4	2	2	2	h
	2-Methylheptanol-3-one-5	2	2	2	4
4621	(1-Methylheptyl)cyanoacetic acid, ethyl	2	2	ے	7
1,600	ester	4	2	4	4
4622	(1-Methylheptylidene)cyanoacetic acid,	4	2	4	7
11000	methyl ester	ha= 0	2	2	4
4628	(1-Methylhexyl)cyanoacetic acid, ethyl est	ter 2	2	2	7
4629	(1-Methylhexylidene)cyanoacetic acid,	2	2	)	**
11/2-2	methyl ester	2	2	2	3
4630	Methyl hexyl ketone	2	۷	2	)

Table 1 (Continued)

Teen	Table	1 (Continued)				
### ### ### ### ### ### ### ### ### ##	Item					
1637	No.	: Chemical	Knock-do	own:Kill:	Knock-dow	n:Kill
1637						
Carboxylic acid, methyl ester   2	4631	Methyl hexyl ketone glycerol acetal				3
Carboxylic acid, methyl ester   2	4634		2		2	3
Carboxylic acid, methyl ester   2-Methyl-1-methoxyacetophenone   2	4637		2	2	ŢŤ.	4
	1001					
	4647	2-Methyl-1-methoxyzcetophenone	2		3	3
4650   3-Methyl-4-methoxyoutyrophenone   2	TETA	Z-Methyl-1-methoryecatophenone	2		4	Ĭ,
#651 beta-Methyl-beta-p-methoxyphenylglycidic 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	116110	5. Nother 2-mother recetanhanene	2			7
#651 beta-Methyl-beta-p-methoxyphenylglycidic 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		7 Maib 1 1 mathambatanahanana		2	Į.	1
acid, allyl ester beta-Methyl-beta-p-methoxyphenylglycidic 2 2 4 4 4 4 4 655 beta-Methyl-beta-p-methoxyphenylglycidic 2 3 3 3 acid, methyl ester l654 3-Methyl-l-mathoxyvalerophenone 3 3 4 4 4 4 6 5 5 -Methyl-l-methylstyrene dibromide 2 2 2 3 3 4 6 7 2 -Methyl-5-nitro-2-iso-propyl-m-dioxane 2 4 4 4 4 6 7 2 4 4 6 7 2 4 4 6 7 2 4 6 7 2 5 -Methyl-5-nitro-2-iso-propyl-m-dioxane 2 4 4 4 6 7 2 4 4 6 7 2 4 6 7 2 5 -Methyl-5-nitro-2-iso-propyl-m-dioxane 2 4 4 6 7 2 4 6 7 2 5 -Methyl-5,5-nonanediol 2 4 4 4 4 6 7 2 6 7 2 6 Methyl nonyl ketone 4 5 7 2 7 -Methyl-2,4-octanediol 2 2 3 2 2 3 3 2 2 6 6 7 7 -Methyl-2,4-octanediol 2 2 3 3 3 2 2 6 6 7 7 -Methyl-2,4-octanediol 2 4 4 4 6 7 2 7 -Methyl-2,4-octanediol 2 4 4 4 6 7 2 7 -Methyl-1-oxo-1,3-dioxaspiro(4.5)decane-2 4 4 6 7 2 -Methyl-1-oxo-1,3-dioxaspiro(4.5)decane-2 4 4 6 7 2 -Methyl-1-oxo-1,3-dioxaspiro(4.5)decane-2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		3-Methyl-4-methoxyoutyrophenone				7
#652 beta-Methyl-beta-p_methoxyphenylglycidic 2 2 4 4 4 4 653 beta-Methyl-beta-p_methoxyphenylglycidic 2 3 3 3 acid, 2-phenylethyl ester 3-Methyl-M-methoxyvalerophenone 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4051	beta-methyl-beta-p-methoxyphenylglycldic	<	2	4	)
acid, methyl ester beta-Methyl-beta-p_methoxyphenylglycidic acid, 2-phenylethyl ester acid, 2-phenylethyl ester 3-Methyl-Methyl-beta-p-methoxyphenone 3	1.650		•	0	14	3.
4653   beta-Methyl-beta-p-methoxyphenylglycidic   2   3   3   3   3   4   4   4   4   4   4	4652		2	2	4	4
acid, 2-phenylethyl ester  4657	1 .		_			_
#654 3-Methyl-1-methoxyvalerophenone 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4653		2		3	3
#672 5-Methyl-5-nitro-2-iso-propyl-m-dioxane						
#672 5-Methyl-5-nitro-2-iso-propyl-m-dioxane	4654	3-Methyl-4-methoxyvalerophenone	3	3		4
### ### ##############################	4657	p-Methyl-alpha-methylstyrene dibromide		2		3
### ### ### ### ### ### ### ### ### ##	4672	5-Methyl-5-nitro-2-iso-propyl-m-dioxane	2			4
#67# 8-Methylnonanoic acid #676 Methyl nonyl ketone #678 H-Methyl-3,5-octanediol #679 7-Methyl-2,4-octanediol #683 alpha-Methylol-iso-butyrophenone #684 N-Methyl-1-oxo-1,3-dioxaspiro(4.5)decane- 2-carboxylic acid, propyl ester #685 7-Methyl-4-oxo-5-octanoic acid, allyl ester #686 7-Methyl-4-oxo-5-octanoic acid, allyl ester #687 M-Methyl-1-poxo-5-octanoic acid, allyl ester #688 7-Methyl-4-oxo-5-octanoic acid, allyl ester #695 M-Methyl-2-pentenoic acid, ethyl ester #695 M-Methyl-1-phenethyl alcohol #700 alpha-Methyl-alpha-phenylcyclohexanone #700 beta-Methyl-beta-phenylglycidic acid, #701 alpha-Methyl-beta-phenylglycidic acid, #702 allyl ester #703 alpha-Methyl-beta-phenylglycidic acid, #704 alpha-Methyl-beta-phenylglycidic acid, #705 alpha-Methyl-beta-phenylglycidic acid, #707 alpha-Methyl-beta-phenylglycidic acid, #708 alpha-Methyl-beta-phenylglycidic acid, #709 alpha-Methyl-beta-phenylglycidic acid, #710 beta-Methyl-beta-phenylglycidic acid, #711 beta-Methyl-beta-phenylglycidic acid, #712 alpha-Methyl-beta-phenylglycidic acid, #713 alpha-Methyl-beta-phenylglycidic acid, #714 beta-Methyl-beta-phenylglycidic acid, #715 alpha-Methyl-beta-phenylglycidic acid, #716 beta-Methyl-beta-phenylglycidic acid, #717 alpha-Methyl-beta-phenylglycidic acid, #718 beta-Methyl-beta-phenylglycidic acid, #719 alpha-Methyl-beta-phenylglycidic acid, #710 beta-Methyl-beta-phenylglycidic acid, #711 beta-Methyl-beta-phenylglycidic acid, #712 alpha-Methyl-beta-phenylglycidic acid, #713 alpha-Methyl-beta-phenylglycidic acid, #714 beta-Methyl-beta-phenylglycidic acid, #715 alpha-Methyl-beta-phenylglycidic acid, #716 beta-Methyl-beta-phenylglycidic acid, #717 alpha-Methyl-beta-phenylglycidic acid, #718 beta-Methyl-beta-phenylglycidic acid, #719 alpha-Methyl-beta-phenylglycidic acid	4672a	4-Methyl-3,5-nonanediol	2		7†	14
#683 alpha-Methylol-iso-butyrophenone	4674	8-Methylnonanoic acid	2	3	3	2
#683 alpha-Methylol-iso-butyrophenone	4676		2		3	2
#683 alpha-Methylol-iso-butyrophenone	4678	4-Methyl-3,5-octanedial	2		2	3
#683 alpha-Methylol-iso-butyrophenone	4679	7-Methyl-2 U-actanedial	2		'n	Į.
4684 N-Methylolnonamide 4686 2-Methyl-4-oxo-1,3-dioxaspiro(4.5)decane- 2-carboxylic acid, propyl ester 4688 7-Methyl-4-oxo-5-octenoic acid, allyl ester 4 2 4 2 4693 4-Methyl-2-pentenoic acid, ethyl ester 2 3 2 4695 m-Methylphenethyl alcohol 2 2 4 4703 alpha-Methyl-alpha-phenylcyclohexanone 2 2 4 4705 2-Methyl-2-phenyl-m-dioxane 2 4 2 4706 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 allyl ester 4707 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 3 allyl ester 4709 alpha-Methyl-alpha-phenylglycidic acid, 2 2 4 2 butyl ester 4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 c-thoxyethyl ester 4712 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 2 ethyl ester 4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 3 allyl ester 4715 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 -hydroxyethyl ester 4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 3 allyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 3 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 7 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 7 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	TIERZ			2		h
4686 2-Methyl-4-oxo-1, 3-dioxaspiro(4.5)decane— 2 2-carboxylic acid, propyl ester 4688 7-Methyl-4-oxo-5-octenoic acid, allyl ester 4 2 4 2 4693 4-Methyl-2-pentenoic acid, ethyl ester 2 3 2 4695 m-Methylphenethyl alcohol 2 2 4 4705 alpha-Methyl-alpha-phenylcyclohexanone 2 2 4 4705 2-Methyl-2-phenyl-m-dioxane 2 4 2 4706 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 allyl ester 4707 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 2 allyl ester 4709 alpha-Methyl-alpha-phenylglycidic acid, 2 2 4 2 butyl ester 4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 cethoxyethyl ester 4712 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 ethyl ester 4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 ethyl ester 4715 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 allyl ester 4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 5 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rear		_	2	Z.	)i
2-carboxylic acid, propyl ester  4688 7-Methyl-4-oxo-5-octenoic acid, allyl ester 4 2 4 2  4693 4-Methyl-2-pentenoic acid, ethyl ester 2 3 2  4695 m-Methylphenethyl alcohol 2 2 4  4703 alpha-Methyl-alpha-phenylcyclohexanone 2 4  4705 2-Methyl-2-phenyl-m-dioxane 2 4  4706 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2  allyl ester  4707 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 2  allyl ester  4709 alpha-Methyl-alpha-phenylglycidic acid, 2 2 4 2  butyl ester  4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 ethoxyethyl ester  4712 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 2  ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 3 ydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 3  allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 3 hydroxyethyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		2-Mothyl lare 1 7-diameter () Eldecone	2			
4688 7-Methyl-4-oxo-5-octenoic acid, allyl ester 4 2 4 2 4 4 693 4-Methyl-2-pentenoic acid, ethyl ester 2 3 2 4 4 695 m-Methylphenethyl alcohol 2 2 4 4 4 7 6 2 1 4 7 6 2 2 4 4 7 7 7 8 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 2 4 2 2 2 2 4 2 2 2 2 2 4 2	7000	2 combamilia acid manual actor			*	**
4693 4-Methyl-2-pentenoic acid, ethyl ester 2 3 2 4 4695 m-Methylphenethyl alcohol 2 2 4 4 4703 alpha-Methyl-alpha-phenylcyclohexanone 2 2 4 4 2 4 2 4 2 4 2 4 2 4 2 4 2 2 4 4 4 2 2 4 4 4 2 2 4 4 4 2 2 4 4 4 2 2 4 4 4 2 2 4 4 4 2 4	11600	Z-carooxylic acid, propyl ester		0	10	0
4703 alpha-Methyl-alpha-phenylcyclohexanone 2 44705 2-Methyl-2-phenyl-m-dioxane 2 4706 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 2 4 2 3 2 4 3 2 4 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		-methyl-4-oxo-5-octenoic acid, allyl est		2		2
4703 alpha-Methyl-alpha-phenylcyclohexanone 2 44705 2-Methyl-2-phenyl-m-dioxane 2 4706 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 2 4 2 3 2 4 3 2 4 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4093	4-methyl-2-pentenoic acid, ethyl ester			3	2
4705 2-Methyl-2-phenyl-m-dioxane 2 4 2 4 2 4 2 allyl ester 4707 alpha-Methyl-beta-phenylglycidic acid, 2 4 3 allyl ester 4709 alpha-Methyl-alpha-phenylglycidic acid, 2 2 4 2 butyl ester 4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 2 2 4 2 2 4 2 2 4 4 2 2 4 4 2 2 4 4 2 2 4 4 2 2 4 4 2 2 4 4 4 2 2 4	4095	m-Methylphenethyl alcohol	2		2	4
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allyl ester  4709 alpha-Methyl-alpha-phenylglycidic acid, 2 2 4 2 butyl ester  4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-ethoxyethyl ester  4712 alpha-Methyl-beta-phenylglycidic acid, 2 4 2 ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 4 allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester  4717 alpha-Methyl-beta-phenylglycidic acid, 2 2 4 4 2	4707	alpha-Methyl-beta-phenylglycidic acid,	2		74	3
butyl ester  4711 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-ethoxyethyl ester  4712 alpha-Methyl-beta-phenylglycidic acid, 2 4 2 ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester  4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2		allyl ester				
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2-ethoxyethyl ester  4712 alpha-Methyl-beta-phenylglycidic acid, 2 4 2 ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2 2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 4 3 allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester  4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	4711		2	2	14	)ı
4712 alpha-Methyl-beta-phenylglycidic acid, 2 ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 methallyl ester  4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	.,		_	_	·	,
ethyl ester  4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 4 3 allyl ester  4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester  4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	4712		2		)ı.	2
4714 beta-Methyl-beta-phenylglycidic acid, 2 2 4 4 2-hydroxyethyl ester 4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 4 3 allyl ester 4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	1122		_		7	<u>~</u>
2-hydroxyethyl ester  4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 4716 beta-Methyl-beta-phenylglycidic acid, 2 4716 beta-Methyl-beta-phenylglycidic acid, 2 4717 alpha-Methyl-beta-phenylglycidic acid, 2 472 473 alpha-Methyl-beta-phenylglycidic acid, 2 473 2	117731		0	0	11	14
4715 alpha-Methyl-beta-phenylglycidic acid, meth- 2 allyl ester 4716 beta-Methyl-beta-phenylglycidic acid, 2 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	4/14		2	2	4	4
allyl ester 4716 beta-Methyl-beta-phenylglycidic acid, 2 2 4 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	1				١.	
4716 beta-Methyl-beta-phenylglycidic acid, 2 4 methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	4/15		th- 2		4	3
methallyl ester 4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	1					
4717 alpha-Methyl-beta-phenylglycidic acid, 2 4 2	4716		2		2	14
		methallyl ester				
	4717	alpha-Methyl-beta-phenylglycidic acid,	2		并	2

Table 1 (Continued)

-	Z (OOLUZIRIGEL)	PP	43.		
Item				Mosquito	
No.	: Chemical :	Knock-ac	WIT: XIII:	Knock-down	RILL
4719	beta-Methyl-beta-phenylglycidic acid, beta-phenethyl ester	2		jt	<b>并</b>
4723	beta-Methyl-beta-phenylglycidic acid, tetrahydrofurfuryl ester	2		3	Ħ
4724	N-Methyl-N-phenylglycine, ethyl ester	2	14	3	3
4727	2-Methyl-5-phenyl-2-propyl-1,3-dioxolan- 4-one			3 2	3
4728	(1-Methyl-3-phenylpropylidene)cyanoaceti acid, ethyl ester	c 2		jt	并
4730	N-Methyl-N-phenylurethane	2	2	2	3
4738	(1-Methyl-1-propenyl)butylcyanoacetic acid, ethyl ester	2		2	3
4739	(1-Methyl-1-propenyl)butylmalonic acid, diethyl ester	2		2	<b>并</b>
4740	Methyl o-propenyl-p-cresol ether	2		2	4
4741	7-Methyl-4-(2-propenyl)decadiene-1,9-diol-4,7	3	2	14	Ħ
4743	(1-Methyl-1-propenyl)propylcyanoacetic acid, ethyl ester	2		2	4
4749	7-Methyl-4-propyldecanedic1-4,7	2	2	2	3 2
4750	2-Methyl-2-n-propyl-m-dioxane	3 2	2	4	2
4751	2-Methyl-2-propyl-1,3-dioxolane-4,5-dicarboxylic acid, dimethyl ester	2		Ħ	2
4752	beta-Methyl-beta-propylglycidic acid, cyclohexyl ester	5	2	jt	2
4757	(1-Methylpropylidene) malonic acid, diethyl ester	2		3	2
4758	Methyl propyl ketone glycerol	2		2 4	3
4760	2-Methyl-5-iso-propylphenethyl alcohol	2			4
4765	2-Methyl-5-iso-propyl stearophenone	2	2	3	2
4774	1-Methyl-1,2,3,4-tetrahydro-2-naphthol	2	1		2
4776	8-Methyl-2,3-tetramethylene-1,4-dioxaspi (4.5)decane		4	4	3
4783	beta-Methyl-beta-p-tolylglycidic acid, iso-propyl ester	3	2	3	2
4784	Methyl p-tolyl ketone glycerol acetal	2	2	4	3
4792	Monoamylbiphenyl (Pentaryl A)	2	2	4	3 2 4
4794	N-(mixed Monoamyl)imides of 3,6-endometh ene-1-cyclohexene-1,2-dicarboxylic aci	đ	2	Ţţ.	•
4801	Monokerylbenzene	2	2	4	2
4804	Mononitrile of azelaic (?) acid	2		4	2 4
4805	Mononitrile of azelaic (?) acid, butyl e	ster 2		計	
4806	Mononitrile of azelaic (1) acid, ethyl ester	2		·	4
4807	Mononitrile of azelaic (?) acid, methyl ester	2		jt.	lţ.
4811	4-Morpholineacetic acid, butyl ester	2	74	3 4	2
4812	4-Morpholineacetic acid, isobornyl ester	2	2	) <del>t</del>	3

Table 1 (Continued)

Taule	I (continued)				
Item		House f	lies :	Mosquit	068
No.	Chemical	Knock-dow	n:Kill:K	20 cls-dow	n:Kill
N					
4816	Morpholineundecylenamide	4	2 2 2 2 2 3	2 14	3 2 2 2 2
4827	Myristic acid, cyclohexyl ester	2	2		2
4830	Myristic acid, ethyl ester	2 2 2	2	3 3 4	2
4837	Myristic acid, methyl ester	2	2	3	2
4839	Myristonitrile		2	3	2
4847	1-Naphthalenebutyric acid, ethyl ester	2	3		4
4848	2-Naphthalenebutyric acid, ethyl ester	2		2	14
4857	Naphthenic acids (chiefly cyclopentane	2	3	2	2
	acids), <u>n</u> -propyl esters				
4868	2-Naphthonitrile	2	2	3	2
4871	alpha-Naphthoxyacetal	2 4	2 3 2	3 2 4	计
4872	beta-Naphthoxyacetal	ц	2		14
4883	alpha-Naphthylcarbinol	2		3	2
4885	beta-Naphthyl ethyl ether	2	2	3	2
4893	N-2-Naphthylpropionamide	2	2	2	3
4899	Neo Fat No. 3R Acid, 2-chloroallyl ester	2	2	3 2 2 4	Į.
4901	Nerolidol	2 2 2 2 4		4	3
4915	Nicotyrine	4	2	4	2
4993	3-Nitro-4-heptanol	2	2 2	٦ 2	3
4994	2-Nitro-3-hydroxy-4-ethyloctane	2 2 2	2	4	2
4995	2-Nitro-3-hydroxyhexane			3	2442234323223
4995a	2-Nitro-2-methyl-1,3-propanediol benzald	.e- 2		Ĺ.	3
	hyde acetal (triacetin solution)				
49956	2-Nitro-2-methyl-1,3-propanediol p-metho	xy- 2		1	2
	benzaldehyde acetal (triacetin solutio	n)			
5006	2-Nitro-2-methyl-1-propanol	2	2	2	3
5029	1-(p-Nitrophenyl)piperidine	2	2	计	2
5051	alpha-iso-Nitrosopropionphenone	2	3	3	4
5058	alpha, alpha ', alpha ''-Nonachloromesitylen	.e 2 .2	3 2	3 2	3 4 3
5066	1,2-Nonanediol	2	2	<b>并</b>	Ą
5067	1,9-Nonanediol	2		1	2
5068	2,4-Nonanediol	2	2	14	2 4
5073	n-Nonylphenylcarbinol	2		14	2
5076	Octab (a quaternary ammonium salt)	2		3	2
5077	Octadecane	2	3	3 2 4	
5082	Octadecene-1	2	3 2	14	4
5086	Octadecyl bromide	2	2	4	
5091	2-Octadecynoic acid, methyl ester	2	2	4	3 2 4 2 4
5093	Octahydro-1(2)-naphthalenone diethyl ace		_	2	14
5097	2,3-Octanediol			3	2
5098	2,4-Octanediol	2		2	Ĭī.
5099	4,5-Octanediol	2	3	2	*
5106	3-Octenol-1	2		3	11
5113	Octylamine	2 2 2 2 2 2 2 2	2	3 2 3 2 2	3
5118	n-Octyl carbomethoxymethyl sulfone	2	_	2	Ţ
5121	alpha-n-Octylcinnamaldehyde	2	2	14	3
5124	o-sec-Octylox benzaldebyde	2	_	14	3
5127	n-Octylphthalimide	2	2	14	4 3 4 3 2
)1	a of almontona	_	٥		_

Table 1 (Continued)

Tenn   Chemical   House files   Mosquitoes   Knock-down:Kill:Knock-down:Kill	The		-		3.0	
Signature   Sign			House fl:	ies_:_	Mosquit	008
5134   Oil, castor   2	No.		Knock-down	Kill:	nock-dow	n:Kill
5134   Oil, castor   2	E1 71	2-0atrmol 3	0		11	0
S225   Oleic acid, n=butyl ester   2			2			2
S225   Oleic acid, n=butyl ester   2			2	_		2
S225   Oleic acid, n=butyl ester   2			5	3	2	2
S225   Oleic acid, n=butyl ester   2			2	_	3	4
S225   Oleic acid, n=butyl ester   2			2	2	2	3
S225   Oleic acid, n=butyl ester   2			2			2
524s Orthoacetic acid, triamyl ester 2 4 2 5251 Orthobanzoic acid, tripropyl ester 2 4 4 5252 Orthocarbonic acid, tetra(2-methoxyethyl) 2 2 3 2 ester 2 5253 Orthoformic acid, bornyl diethyl ester 2 2 3 5254 Orthoformic acid, triamyl ester 2 2 3 5255 Orthoformic acid, triamyl ester 2 3 2 5256 Orthoformic acid, tri(2-methoxyethyl) ester 2 3 4 5270 Oxanilide 2 2 4 2 gamma-Oximinovaleric acid, ethyl ester 2 4 3 5272 gamma-Oximinovaleric acid, ethyl ester 2 4 4 5275 2-Oxocyclopentanecarboxylic acid, 2 4 4 5276 2-Oxocyclopentanecarboxylic acid, 2 2 3 3 5277 2-Oxocyclopentanecarboxylic acid, 2 2 2 3 5278 2-Oxocyclopentanecarboxylic acid, 2 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibropyl ester 2 2 4 2 5295 Palmitic acid, ethyl ester 2 2 4 2 5296 Pentabromophenol 2 2 3 3 4 5350 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 3 5351 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5352 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5353 N.N-Pentamethyleneglucine, cyclohexyl ester 2 4 3 5354 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6360 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4						3
524s Orthoacetic acid, triamyl ester 2 4 2 5251 Orthobanzoic acid, tripropyl ester 2 4 4 5252 Orthocarbonic acid, tetra(2-methoxyethyl) 2 2 3 2 ester 2 5253 Orthoformic acid, bornyl diethyl ester 2 2 3 5254 Orthoformic acid, triamyl ester 2 2 3 5255 Orthoformic acid, triamyl ester 2 3 2 5256 Orthoformic acid, tri(2-methoxyethyl) ester 2 3 4 5270 Oxanilide 2 2 4 2 gamma-Oximinovaleric acid, ethyl ester 2 4 3 5272 gamma-Oximinovaleric acid, ethyl ester 2 4 4 5275 2-Oxocyclopentanecarboxylic acid, 2 4 4 5276 2-Oxocyclopentanecarboxylic acid, 2 2 3 3 5277 2-Oxocyclopentanecarboxylic acid, 2 2 2 3 5278 2-Oxocyclopentanecarboxylic acid, 2 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibropyl ester 2 2 4 2 5295 Palmitic acid, ethyl ester 2 2 4 2 5296 Pentabromophenol 2 2 3 3 4 5350 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 3 5351 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5352 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5353 N.N-Pentamethyleneglucine, cyclohexyl ester 2 4 3 5354 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6360 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4			2	2		2
524s Orthoacetic acid, triamyl ester 2 4 2 5251 Orthobanzoic acid, tripropyl ester 2 4 4 5252 Orthocarbonic acid, tetra(2-methoxyethyl) 2 2 3 2 ester 2 5253 Orthoformic acid, bornyl diethyl ester 2 2 3 5254 Orthoformic acid, triamyl ester 2 2 3 5255 Orthoformic acid, triamyl ester 2 3 2 5256 Orthoformic acid, tri(2-methoxyethyl) ester 2 3 4 5270 Oxanilide 2 2 4 2 gamma-Oximinovaleric acid, ethyl ester 2 4 3 5272 gamma-Oximinovaleric acid, ethyl ester 2 4 4 5275 2-Oxocyclopentanecarboxylic acid, 2 4 4 5276 2-Oxocyclopentanecarboxylic acid, 2 2 3 3 5277 2-Oxocyclopentanecarboxylic acid, 2 2 2 3 5278 2-Oxocyclopentanecarboxylic acid, 2 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibropyl ester 2 2 4 2 5295 Palmitic acid, ethyl ester 2 2 4 2 5296 Pentabromophenol 2 2 3 3 4 5350 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 3 5351 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5352 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5353 N.N-Pentamethyleneglucine, cyclohexyl ester 2 4 3 5354 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6360 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4			2	2		2
524s Orthoacetic acid, triamyl ester 2 4 2 5251 Orthobanzoic acid, tripropyl ester 2 4 4 5252 Orthocarbonic acid, tetra(2-methoxyethyl) 2 2 3 2 ester 2 5253 Orthoformic acid, bornyl diethyl ester 2 2 3 5254 Orthoformic acid, triamyl ester 2 2 3 5255 Orthoformic acid, triamyl ester 2 3 2 5256 Orthoformic acid, tri(2-methoxyethyl) ester 2 3 4 5270 Oxanilide 2 2 4 2 gamma-Oximinovaleric acid, ethyl ester 2 4 3 5272 gamma-Oximinovaleric acid, ethyl ester 2 4 4 5275 2-Oxocyclopentanecarboxylic acid, 2 4 4 5276 2-Oxocyclopentanecarboxylic acid, 2 2 3 3 5277 2-Oxocyclopentanecarboxylic acid, 2 2 2 3 5278 2-Oxocyclopentanecarboxylic acid, 2 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5279 2-Oxocyclopentanecarboxylic acid, 2 2 4 5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 5281 beta-Oxoglutaric acid, dibropyl ester 2 2 4 2 5295 Palmitic acid, ethyl ester 2 2 4 2 5296 Pentabromophenol 2 2 3 3 4 5350 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 3 5351 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5352 N.N-Pentamethyleneglutaramic acid, ethyl ester 2 4 3 5353 N.N-Pentamethyleneglucine, cyclohexyl ester 2 4 3 5354 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6360 N.N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 6361 N.N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4		Celic acid, glyceryl monoester	2	2	3	3
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ester  5253 Orthoformic acid, bornyl diethyl ester 2 2 3  5254 Orthoformic acid, triamyl ester 2 3 2  5256 Orthoformic acid, triamyl ester 2 3 2  5270 Oxanilide 2 2 4 2  5272 gamma-Oximinovaleric acid, ethyl ester 2 4 3  5275 2-Oxocyclopentanecarboxylic acid, 2 4 4 4  butoxyethyl ester  5276 2-Oxocyclopentanecarboxylic acid, 2 2 3 3  cyclohexyl ester  5277 2-Oxocyclopentanecarboxylic acid, 2 2 2 4  ethoxyethyl ester  5278 2-Oxocyclopentanecarboxylic acid, 2 2 2 4  ethoxyethyl ester  5279 2-Oxocyclopentanecarboxylic acid, 2 2 2 4  ethoxyethyl ester  5279 2-Oxocyclopentanecarboxylic acid, 2 4 4  tetrahydrofurfuryl ester  5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2  5281 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2  5295 Palmitic acid, ethyl ester 2 2 4 2  5295 Palmitic acid, ethyl ester 2 2 4 2  5314 Pelargonic acid 2 3 4 4 2  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester 2 3 3  5352 N,N-Pentamethyleneglycine, butyl ester 2 4 2  5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 3  hexahydroindone 5  5357 N,N-Pentamethylenesuccinemic acid, 2 4 4 2  acid, ethyl ester 5  5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3  ester 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3  ester 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 2 4 5  5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 2 2 2 4 5  5361 N,N-Penta				2	3	2
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butoxyethyl ester  5276 2-Oxocyclopentanecarboxylic acid, 2 3 3 3 cyclohexyl ester  5277 2-Oxocyclopentanecarboxylic acid, 2 2 4 ethoxyethyl ester  5278 2-Oxocyclopentanecarboxylic acid, 2 2 4 ethoxyethyl ester  5279 2-Oxocyclopentanecarboxylic acid, 2 4 4 tetrahydrofurfurfuryl ester  5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5253		2		2	3
butoxyethyl ester  5276 2-Oxocyclopentanecarboxylic acid, 2 3 3 3 cyclohexyl ester  5277 2-Oxocyclopentanecarboxylic acid, 2 2 4 ethoxyethyl ester  5278 2-Oxocyclopentanecarboxylic acid, 2 2 4 ethoxyethyl ester  5279 2-Oxocyclopentanecarboxylic acid, 2 4 4 tetrahydrofurfurfuryl ester  5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			2		3	2
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ethoxyethyl ester  5279 2-Oxocyclopentanecarboxylic acid, 2 4 4  tetrahydrofurfuryl ester  5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2  5281 beta-Oxoglutaric acid, dipropyl ester 2 2 4 2  5295 Palmitic acid, ethyl ester 2 2 4 2  5314 Pelargonic acid 2 3 4 4  5329 Pentabromophenol 2 2 2 3 2  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester 2 3  5352 N,N-Pentamethyleneglycine, butyl ester 2 4 2  5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 3  5354 3,3'-Pentamethyleneglycine, cyclohexyl ester 2 4 3  hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2  acid, ethyl ester 2 4 4 2  5360 N,N-Pentamethylenesuccinamic acid, 2 4 4 2  ester 5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3  ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 4 4 2  ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 4 4 2	E076		0		0	)1
tetrahydrofurfuryl ester  5280 beta-Oxoglutaric acid, dibutyl ester 2 2 4 2  5281 beta-Oxoglutaric acid, dipropyl ester 2 2 4 2  5295 Palmitic acid, ethyl ester 2 2 4 2  5314 Pelargonic acid 2 3 4 4  5329 Pentabromophenol 2 2 2 3 2  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester 2 3 3  5352 N,N-Pentamethyleneglycine, butyl ester 2 4 2  5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 4 3  5354 3,3'-Pentamethylene-2,3,4,5,6,(7 or 9)- 3 2 4 3  hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2  acid, ethyl ester 5360 N,N-Pentamethylenesuccinamic acid, 2 4 4 2  ester 5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3  ester 5361 N,N-Pentamethylenesuccinamic acid, 2 4 4 2	22/0					
beta-Oxoglutaric acid, dibutyl ester 2 2 4 2  5281 beta-Oxoglutaric acid, dipropyl ester 2 2 4 2  5295 Palmitic acid, ethyl ester 2 2 4 4 2  5314 Pelargonic acid 2 3 4 4  5329 Pentabromophenol 2 2 2 3 2  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester 2 3 3  5352 N,N-Pentamethyleneglycine, butyl ester 2 4 2  5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 3  5354 3,3'-Pentamethylene-2,3,4,5,6,(7 or 9)- 3 2 4 3  hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2  acid, ethyl ester 5360 N,N-Pentamethylenesuccinamic acid, 2 4 4 2  ester 5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3  ester 5361 N,N-Pentamethylenesuccinamic acid, 2 4 4 2	5279		2		4	jŧ
5281 beta-Oxoglutaric acid, dipropyl ester  5295 Palmitic acid, ethyl ester  5296 Palmitic acid, ethyl ester  5314 Pelargonic acid  5329 Pentabromophenol  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester  5352 N,N-Pentamethyleneglycine, butyl ester  5353 N,N-Pentamethyleneglycine, cyclohexyl ester  5354 3,3'-Pentamethylene-2,3,4,5,6,(? or 9)-  5357 N,N-Pentamethylene maleamic (fumaramic ?)  5357 N,N-Pentamethylene maleamic (fumaramic ?)  5359 N,N-Pentamethylene maleamic acid,  1 iso-butyl ester  5360 N,N-Pentamethylenesuccinamic acid, ethyl  2 ester  5361 N,N-Pentamethylenesuccinamic acid,  52 2 4	FOGO	· · · · · · · · · · · · · · · · · · ·	2	2	11	9
Pelargonic acid  Pelargonic acid  Pentabromophenol  N,N-Pentamethyleneglutaramic acid, ethyl ester  N,N-Pentamethyleneglycine, butyl ester  N,N-Pentamethyleneglycine, cyclohexyl ester  N,N-Pentamethylene-2,3,4,5,6,(7 or 9)-  hexahydroindone  N,N-Pentamethylene maleamic (fumaramic !)  acid, ethyl ester  N,N-Pentamethylenesuccinamic acid,  iso-butyl ester  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  2  4  3  4  4  2  4  4  5  5  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  2  4  4  5  6  8  1  1  1  1  1  1  1  1  1  1  1  1						2
Pelargonic acid  Pelargonic acid  Pentabromophenol  N,N-Pentamethyleneglutaramic acid, ethyl ester  N,N-Pentamethyleneglycine, butyl ester  N,N-Pentamethyleneglycine, cyclohexyl ester  N,N-Pentamethylene-2,3,4,5,6,(7 or 9)-  hexahydroindone  N,N-Pentamethylene maleamic (fumaramic !)  acid, ethyl ester  N,N-Pentamethylenesuccinamic acid,  iso-butyl ester  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  2  4  3  4  4  2  4  4  5  5  N,N-Pentamethylenesuccinamic acid, ethyl  ester  N,N-Pentamethylenesuccinamic acid, ethyl  2  4  4  5  6  8  1  1  1  1  1  1  1  1  1  1  1  1			2	2		2
Pentabromophenol  5329 Pentabromophenol  5350 N,N-Pentamethyleneglutaramic acid, ethyl ester  5352 N,N-Pentamethyleneglycine, butyl ester  5353 N,N-Pentamethyleneglycine, cyclohexyl ester  5354 3,3'-Pentamethylene-2,3,4,5,6,(? or 9)-  6357 N,N-Pentamethylene maleamic (fumaramic ?)  6357 N,N-Pentamethylene maleamic (fumaramic ?)  6359 N,N-Pentamethylenesuccinamic acid,  6359 N,N-Pentamethylenesuccinamic acid,  6350 N,N-Pentamethylenesuccinamic acid,	5295					
5350 N,N-Pentamethyleneglutaramic acid, ethyl ester 2 5352 N,N-Pentamethyleneglycine, butyl ester 2 5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 5354 3,3'-Pentamethylene-2,3,4,5,6,(? or 9)- 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 5359 N,N-Pentamethylene maleamic acid, 2 14 2 150-butyl ester 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 5361 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 5 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7			2	3		
5352 N,N-Pentamethyleneglycine, butyl ester 2 4 2 5353 N,N-Pentamethyleneglycine, cyclohexyl ester 2 4 4 3 5354 3,3'-Pentamethylene-2,3,4,5,6,(? or 9)- 3 2 4 3 hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic?) 2 3 3 2 acid, ethyl ester 5359 N,N-Pentamethylenesuccinamic acid, 2 4 2 iso-butyl ester 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 4 3				2	3	2
5354 3,3'-Pentamethylene-2,3,4,5,6,(7 or 9)- 3 2 4 3 hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 acid, ethyl ester 5359 N,N-Pentamethylenesuccinamic acid, 2 4 2 iso-butyl ester 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4			ter 2	١.	3	3
5354 3,3'-Pentamethylene-2,3,4,5,6,(7 or 9)- 3 2 4 3 hexahydroindone 5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 acid, ethyl ester 5359 N,N-Pentamethylenesuccinamic acid, 2 4 2 iso-butyl ester 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4					2	
hexahydroindone  5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 acid, ethyl ester  5359 N,N-Pentamethylenesuccinamic acid, 2 4 4 2 iso-butyl ester  5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester  5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4	5353	N,N-Pentamethyleneglycine, cyclohexyl es			*	3
5357 N,N-Pentamethylene maleamic (fumaramic ?) 2 3 3 2 acid, ethyl ester 5359 N,N-Pentamethylenesuccinamic acid, 2 4 4 2 iso-butyl ester 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4	5354	3,3'-Pentamethylene-2,3,4,5,6,(7 or 9)-	3	2	4	3
5359 N,N-Pentamethylenesuccinamic acid, 2 4 2 2 3 5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4	5357	N, N-Pentamethylene maleamic (fumaramic ?	) 2	3	3	2
iso-butyl ester  5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester  5361 N,N-Pentamethylenesuccinamic acid, 2 2 4	5750		2	и	μ	2
5360 N,N-Pentamethylenesuccinamic acid, ethyl 2 2 4 3 ester 5361 N,N-Pentamethylenesuccinamic acid, 2 2 4	דכככ		_		·	
5361 N,N-Pentamethylenesuccinamic acid, 2 2 2 4	5360	N, N-Pentamethylenesuccinamic acid, ethyl	2	2	Ħ	3
	5361		2	2	2	<b>并</b>
	7,50-					

Item		House	flies :	Mosquit	008
No.			wn:Kill:K		
2100					- V III- 0. 0. 0
F7(0	77 37 73	4	0	14	7
5362	N,N-Pentamethylenesuccinamic acid,	4	2	4	3
	n-propyl ester				
5363	N, N-Pentamethylenesuccinamic acid,	3	3	2	2
	iso-propyl ester		_		
5370	(1-iso-Pentenyl)ethylmalonic acid,	2		4	74
2210		-		.4	
	diethyl ester				1.
5371	(1-iso-Pentenyl)methylmalonic acid,	2		2	并
	diethyl ester				
5372	(1-Pentenyl)-iso-propylmalonic acid,	2	2	3	4
221-	diethyl ester				
5777	(1-iso-Pentenyl)propylmalonic acid,	2	2	2	24
5373		~	<u>~</u>	6	-4
	diethyl ester				,
5375	p-n-Pentoxybenzaldehyde	2	3	3	4
5376	p-iso-Pentoxybenzaldehyde	2	3	3	4
5379	p-Pentoxybenzyl alcohol	2	3 3 2	3 3 4	2
5380	p-iso-Pentoxybenzyl alcohol	2	_	14	2
				4	2 4
5380a	p-Pentoxycinnamic acid, 2-ethylbutyl est				
5385	p-Pentoxycinnamic acid, 2-ethylhexyl est			3	4
5386	p-iso-Pentoxycinnamic acid, 2-ethylhexyl	2		14	2
	ester				
5388	p-Pentcxyphenethyl alcohol	2	2	4	7
			~	*	3
5389	p-iso-Pentoxyphenethyl alcohol	2		并	3
5391	2-p-Pentoxyphenyl-5-ethyl-6-propyl-	2	2	2	4
	dioxane-1,3				
5392	2-iso-Pentoxyphenyl-5-ethyl-6-propyl-	2	3	4	Ц
7775		-	)	т	7
	dioxane-1,3				_
5395	iso-Pentylideneacetoacetic acid,	2		2	3
	iso-propyl ester				
5399	6-Pentylundecene-5	2		3	4
5400	Perbenzoic acid, tert-butyl ester	2		3 2 4	
5404		ų.	7	7,	3
	2-Phenethoxycyclohexanol		3		
5407	Phenetole	2		2	Ţ\$
5421	Phenoxyacetic acid	2	уţ	2	1
5428	Phenoxyacetic acid, 1,3-propanediol	2	2	3	2
	monester		_		
5432	p-Phenoxyacetophenone	2		4	2
51176				1,	7
5436	Phenoxybutyric acid, ethyl ester	2		4	4
5437	beta-Phenoxycrotonic acid, ethyl ester	2		3	4
5437 5448	beta-Phenoxystyrene	2 2 2		3 2 3	4 3 2 2
5458	Phenylacetic acid, cyclohexyl ester	2		7	2
5459	Phenylacetic acid, diethylene glycol	2		Σı	2
כנידני		_		7	2
-1.00	monoester			۸.	_
5460	Phenylacetic acid, ethylene glycol monoe	ster 2		14	2
5461	Phenylacetic acid, ethyl ester	2	2	3	2
5466 5474	alpha-Phenyl-beta-aminodiethyl ether	2		2	3
Flith	Phenylbarbituric acid, diethyl ester	2		7	2
5)170		_ ~	0	2	0
24/8	Phenylbenzylcyanoacetic acid, ethyl ester	2 3 2 2	2	4 32 32 34	223223
5479	1-Phenylbutane-1,3-dione	2		3	3
5478 5479 5484	4-Phenyl-2-butanol	2			14
5490	N-Phenyl-N-n-butylfuroamide	2	3	2	4
2.70					

Table 1 (Continued)

18010	I (Continued)				
Item		House fl			
No.	Chemical:	Knock-down	:Kill:Kr	ock-down	n:Kill
5491	(1-Phenylbutylidene)cyanoacetic acid,	3	3	<b>j</b> †	<b>并</b>
	ethyl ester				
5495	alpha-Phenylbutyric acid	2		3	2
5497	dl-beta-Phenylbutyric acid	2		3	14
5498	garma-Fhenylbutyric acid	2	2	4	2
5499	alpha-Phenylbutyric acid, allyl ester	2	14	4	3
5500	alpha-Phenylbutyric acid, ethyl ester	2		2	3
5502	N-(alpha-Fhenylbutyryl)piperidine	2	2	4	<b>4</b>
5508	Fhenylcyanoacetic acid, ethyl ester	2	2	4	2
5508a	3-Phenylcyclohexanol	2	2		2
5513	4-Phenylcyclohexanol	2	· ·	3	'n
5514	Phenylcyclohexanone	2	2	Zí.	h
5517	1-Phenylcyclohexene-2-ol-1	2	_	4	2
5519	N-Phenylcyclohexylamine	2		7	7
5522	4-Phenyl-5,5-dicarbethoxypentanone-2	9	7	7	2
7722	4-Phenyl-1, 3-dioxane	2	3	)	7
5529	3-Phenyl-1,4-dioxaspiro(4.4)nonan-2-one	2	)	7	2
5530	3-Phenyl diphenyl ether	2	2	3 3 2 3	2
5532 5541		2222222222222	2	4	23332244232332442232
2247	dl-alpha-Phenylethylamine	2		4	1,
5542	beta-Phenylethylamine	2			4
5550	2-(2-Phenylethyl)-m-dioxane	2	•	3	2
5551	2-Phenyl-2-ethyl-m-dioxane	2	2 2	4	2
5552	Phenyl ethylene glycol monoether	2	2	2	5
<b>5</b> 5555	beta-Phenyl-beta-ethylglycidic acid,	2	2	3	2
	ethyl ester		~	14	34
5556	1-Fhenyl-3-ethyl-2-heptanol	2	3	14	4
5557	(1-Phenylethylidene)cyanoacetic acid,	2	2	4	4
	ethyl ester				
5558	Phenylethylmalonic acid, diethyl ester	2	3	<u>†</u>	2 3 2 3
5573	tert-Phenylfenchol	2	2		3
5574	Phenyl furyl ketone	2 3 3		2	3
5576	beta-Phenylglycidic acid, ethyl ester	3	2	14	2
5578	beta-Phenylglutaric acid, diethyl ester	3	2	3	3
5580	beta-Phenylglycidic acid, propyl ester	3	2		2
5586	3-Phenylheptoic acid, ethyl ester	2		4	2
5589	(1-Phenylhexylidene)cyanoacetic acid,	2	2	4	并
	ethyl ester			,	
5595	beta-Phenyl-beta-hydroxybutyric acid,	3	2	4	2
	iso-propyl ester				
5597	2-Phenyl-5-hydroxy-1, 3-dioxane and 2-phe	nv1- 2		2	3
2221	4-hydroxymethyl-1,3-dioxolane, acetate (m				
5601	beta-Phenyl-beta-hydroxypropionic acid,	2	2	14	2
)002	n-butyl ester		_	•	Ξ.
5602	beta-Phenyl-beta-hydroxypropionic acid,	2		4	2
9002	ethyl ester	2		T	
E607		2		4	2
5603	beta-Phenyl-beta-hydroxypropionic acid,	2		7	2
F(0):	methyl ester	2	2	14	2
5604	beta-Phenyl-beta-hydroxypropionic acid,	2	2	+	2
	n-propyl ester				

Table 1 (Continued)

Table	1 (Continued)				
Item		: House fl	ies :	Mosquit	оев
No.	: Chemical	:Knock-down	:Kill:E	nock-dow	n:Ki
=(==					
5605	beta-Fhenyl-beta-hydroxypropionic	2	2	3	2
=(00	acid, iso-propyl ester	•		-	
5608	N-Phenylmaleimide	2	2	3	5
5609	Phenylmalonic acid, diethyl ester	2		3 4	2 3 4
5610	Phenylmalonic acid, dimethyl ester	2		4	
5614	N-Phenyl-N-methylfuroamide	2		3	2
5617	beta-Phenyl-beta-methylglycidic acid,	2		4	2
-6	iso-propyl ester			N.	۸.
5623	1-Pheny1-2-octanol	2	_	4	4
5634	Phenylphosphonic acid, dicresyl ester	2	2	2	1
5636	1-Phenyl-1,3-propanediol	2 2 2		2	3 3 3
5645	1-Phenyl-2-propoxyethanol	2		2	3
5647	2-(1-Phenylpropyl) allyl ether	2		2	3
5651	Phenyl iso-propyl ether	2	3	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
5652	(1-Phenylpropylidene) cyanoacetic acid,	2	4	4	4
	ethyl ester				
5653	Phenyl n-propyl ketone	2	2	2	3
5654	Phenyl propyl ketone glycerol	2	2	3	3
5655	2-(1-Phenylpropy1) methallyl ether	2		2 3 3 3	3 3 3
5658	3-Phenylsalicylic acid, beta-butoxyethy	1 2	2	3	3
	ester				
5660	Phonylstearic acid	2		4	3
5662	alpha-Fhenylsuccinic acid, diethyl este	r 2		并	3 4
5665	2-Phenyltetrahydrooxazole	2		3 4 4 4	4
5667	Phenyl thienyl ketone	2	2	Į.	2 2 34
5672	Phenyl o-tolyl ketone	2	2	4	2
5673	1-Phenyl-4-o-tolyl semicarbazide	2	3	4.	3
5678	2-Phenyl-4,4,6-trimethyldioxane-1,3	2		2	
5680	Phenyl undecyl ketone	2	2	2 3 3 4 3	3
5681	delta-Fhenylvaleric acid	2	2	3	14
5682	alpha-Phenyl-gamma-valerolactone	2	2	Į.	2
5683	alpha-Phenyl-gamma-vinylbutyrolactone	2		3	2
5684	2-(Phenylvinyl)-m-dioxane	2	2		2
5713	Phosphoric acid, triethyl ester	2	2	4	2
5719	Phosphoric acid, trioctyl ester	2		2	3
5735	Phthalic acid, iso-butyl cyclohexyl est			3	3 3 2
5755	terePhthalic acid, di-n-butyl ester	2		2 3 3	2
5763	Phthalic acid, di (beta -ethoxy-beta-	2	2	3	2
	ethoxyethyl) ester				
5764	Phthalic acid, di-beta-ethoxyethyl este	r 2	2	2	4
5766	Phthalic acid, diethyl ester	2	2	并	2
5780	Phthalic acid, di-beta-methoxyethyl est	er 2	2	2	3
5789	Phthalic acid, di-n-propyl ester	2	2	3 3 4	2 3 2 3 4
5796	Phthalic acid, ethyl cyclohexyl ester	2		3	3
5806	Phthalic acid, methyl cyclohexyl ester	2	4		
5808	Phthalic acid, methyl n-hexyl ester	2	2	4	
5812	Phthalic acid, methyl n-octyl ester	2	2	4	2 2
5818	Phthalide	2			
5820	Phthalonitrile	2	2	3 2 3	14
5821	alpha-Picolyltartronic acid, diethyl es			3	3
	_	_			

Thom	A	Uom co. 4	lian :	Wa a mod t	
Item	: Chemical :Kn	nouse I	lies : n:Kill:K	Mosquit	008
No.	: Chemical : An	OCK-GOW	H.VIII;V	TOCK-GOM	u:K111
5824	Pimelic acid, diethyl ester	2		7	2
5828	Pinacolonyltartronic acid, diethyl ester	2		3 4	2
5838	Piperidine-2, 3-dicarboxylic acid,	2		3	5
	diethyl ester	-			-
5843	omega-Piperidinododecylbenzene	3	2	14	2
5849	Piperonal glycerol acetal	3 2	3	2	4
5851	Piperonylacetonitrile	2	3 2	2	4
5852	Piperonyl alcohol	2	2	3	
5853	Piperonyl cyclonene	计	2	3	3
5855	Piperonylic acid, n-anyl ester	4	2 3 3 2 2 2 2 2	Į.	4 3 3 3 3 3 4
5856	Piperonylic acid, n-butyl ester	3 2	3	3	3
5858	Piperonylic acid, n-propyl ester		3	3 3 2	3
5859	Piperonylic acid, tetrahydrofurfuryl ester		2	2	3
5860	Piperonylidenemalonic acid, di-n-butyl est		2	2	3
5865	Pivalic acid, 1,5-pentanediol diester	2		并	3
5867	2-Pivalyl-1,3-indanedione (tert-butyl	2	2	并	14
	valone)				
5882	Prickly ash extract	3 2	2	3	4
5886	Propane-1,1,2,3-tetracarboxylic acid,	2	2	3	3
	tetraethyl ester				١.
5888	iso-Propenylallylmalonic acid, diethyl	2		2	4
	ester	١.		1.	1.
5889	iso-Propenylbenzylmalonic acid, diethyl	14	2	jł	14
	ester			No.	١.
5890	iso-Propenyl-n-butylmalonic acid, diethyl	2		jt	4
	ester				1.
5892	o-Propenyl-p-cresol	2		2	4
5896	2-Propenyl-4,4,6-trimethyl-m-dioxane	2		3	2
5898	N-(2-Propionoxyethyl)propionanilide	2	0		-
5904	Propionic acid, 2-(4-tert-butylphenoxy)-	2	2	3	2
5000	ethyl ester	2	2	14	4
5906	Propionic acid, catechol diester	2	2	4	2
5907	Propionic acid, cetyl ester	2	2		5
5909	Propionic acid, 1,2-cyclohexanediol	~		3	<u>~</u>
E010	diester (cis and trans) Propionic acid, 1,3-cyclohexanediol	2	2	3	3
5910	diester	£.	2	)	)
5911	Propionic acid, 1,4-cyclohexanediol	2	2	14	4
שבענע	diester (cis)	tree .	has		
5914	Propionic acid, 1,4-cyclohexanediol	2		14	4
774	monoester	-			
5915	Propionic acid, diethylene glycol diester	2	2	4	2
5920	Propionic acid, 2-ethyl-2-butyl-1,3-	2		并	2
,,	propanediol diester				
5925	Propionic acid, 1,6-hexanediol diester	2		14	2
5929	Propionic acid, lauryl ester	2	3	并	2
5930	Propionic acid, p-methoxybenzyl ester	<b>并</b>	3 3 3	4	2
5931	Propionic acid, p-methoxyphenethyl ester	2	3	4	4

Table 1 (Continued)

***********	r (contemper)		49.4		
Item	_		flies :		
No.	: Chemical	?Anock-d	own:Kill:K	nock-dow	n:Kill
5935	Propionic acid, 1,9-nonanediol diester	2	2	并	3 2
5936	Propionic acid, pentemethylene diester	2		并	2
5937	Propionic acid, 1,5-pentanedial monoest		3	3	2
5941	Propionic acid, phanylethylene glycol	2		jt.	2
	diester				
5942	Propionic acid, 2-phenyl-2-bydroxyethyl	2		3	3
	ester				
5943	Propionic acid, 1-phenyl-1,3-propenedio	1 2		4	2
	diester				
5944	Propionic acid, piperonyl ester	2	2	3	2
5947	Propionic acid, resorcinol diester	2	_	3	7
5948	Propionic acid, resorcinol monoester	2	2	14	h
5949	Propionic acid, sorbitan tetraester	5	2	2	14
5950	Propionic acid, 1,2,3,4-tetrahydro-2-	2	4	11	14
7970	naphthyl ester	Co		4	_
5951		ter 2		2	14
	Propionic acid, 2,2'-thiodiethanol diss	5	7	5	
5961	p-Propionotoluide	2	3 2	2	5
5964	1-Propionoxycyclohexanecarboxylic acid,	2	2	2	44
FOCE	propyl ester	0		0	~
5965	alpha-Propionoxypropionic acid	2	•	<u>پر</u>	3
5968	N-Propionyl-N-methylanthranilic acid,	4	2	4	3
	methyl ester			_	<b>3.</b>
5973	Propionylsalicylic acid, methyl ester	2		3 2 4	4
5975	N-Propionyl-1,2,3,4-tetrahydroquinalding	9 3	ј <del>1</del> 5	2	2
5976	N-Propionyl-1,2,3,4-tetrahydroquinoline	3			2
5977	Propiophenone	2	<b>j</b> †	2	2
5981	o-iso-Propoxybenzaldehyde	2		3	3
5983	p-iso-Propoxybenzaldehyde	3 3 2 2 2 2		2:3222222	2223342333
5986	o-n-Propoxybenzyl alcohol			2	4
5992	p-iso-Propoxycinnamic acid, n-butyl est		2	2	2
5995	2-n-Propoxycyclohexanol	2		2	3
5998	p-Propoxyphenethyl alcohol	2	2	3 2	3
5999	p-iso-Propoxyphenethyl alcohol	2	2	2	3
6001	2-p-iso-Propoxyphenyl-5-ethyl-6-	7	2	2	2
	propyldioxane-1,3				
6005	alpha-iso-Propoxy-alpha-toluic acid,	2		2	3
	iso-propyl ester				
6007	N-iso-Propylacetamide	2		2	3
6014	p-iso-Propylbenzaldehyde oxime	2		3	3 3 4
6023	(1-Propy1-1-buteny1)ethylcyanoacetic ac			3	Ĭ.
002)	methyl ester	, -		-	•
6036	N-iso-Propyl-3,6-endomethylene-1,2,3,6-	4	2	2	2
00 )0	tetrahydrophthalimide	•	_	-	_
6041	iso-Propylethylmalonic acid, diethyl es	ter 2		2	7
6046	2-n-Propyl-1,3-heptanediol		2	7	3
6048	N-n-Propylhexahydrophthalimide	7	2	2 3 4	2
6053		2 3 ter 2	2	7	34 2 2 4
6060	iso-Propylidenemalonic acid, diethyl es		4	3	11
0000	6-iso-Propyl-2-methyl-4-oxo-2-cyclohexe	U⊕ 4	4	4	*
	1-carboxylic acid, ethyl ester				

Table 1 (Continued)

Table	1 (Continued)				
Item		House	flies :	Mosquit	oes
No.	: Chemical :	Knock-do	wn:Kill:K	nock-dow	n:Kill
6-6-		١.			
6061	1-Propy1-2-methy1-5-oxo-2-pyrroline-3-	并	2	3	3
C . C .	carboxylic acid, ethyl ester	١.			
6062	l-iso-Propyl-2-methyl-5-oxo-2-pyrroline-	4	3	5	3
(0(=	3-carboxylic acid, ethyl ester			1.	
6065	N-n-Propyl-4-methyl-1,2,3,6-tetrahydro-	3	2	7.	2
COCC	phthalimide				
6066	N-iso-Propyl-4-methyl-1,2,3,6-tetrahydro	- 2	2	3	2
6077	phthalimide	0		1.	
6077	beta-iso-Propyl-beta-phenylglycidic acid	, 2		ކ	3
Coad	ethyl ester	0		0	1.
6078	beta-iso-Propyl-beta-phenylglycidic acid	, 2		2	7
(070	methyl ester	3 0		1.	
6079	1-(p-iso-Propylphenyl)-3-methyl-2-butano			4	2
6081	l-(p-iso-Propylphenyl)-2-pentanol	2	2	3	2
6088	N-Propylphthalimide	2			4
6088a	N-iso-Propylphthalimide	2		2	<b>并</b>
6090	N-iso-Propylpropionamide	2 2	3 2	2	3
6091	N-n-Propylpropionanilide		2	2	4
6108	beta-(2-Pyridyl)acrylic acid, ethyl ester	r 2		2	3
6110	Pyrogallol dimethyl ether	2		2	3 3 3 2 2 4
6116	1-Pyrrolacetic acid, cyclohexyl ester	2	2	3 4	2
6117	1-Pyrrolacetic acid, cyclopentyl ester	2	2		2
6122	Pyruvic acid, ethoxyethoxyethyl ester	2		4	4
6129	Quinolinic acid, diethyl ester	2	2	14	3 2 3 4
6133	Resorcinol	2		4	2
6134	Resorcinol acetate propionate	2	2	2	3
6140	Resorcinol monomethyl ether	2	2	2	Į
6146	Ricinoleic acid, methyl ester	2			3
6150	Rotenone	2	3	3 2	3 2 3 2
6159	Salicylaldoxime	2		14	3
6162	Salicylic acid	2 2	3	2	2
6169	Salicylic acid, 2-n-butoxyethyl ester	2	3 2		3
6174	Salicylic acid, cyclohexyl ester	2		71	3 2
6188	Salicylic acid, phenylethyl ester	2	2	4	
6190	Salicylic acid, propylene glycol monoest			74	3 2
6193	Salicylic acid, p-thymol ester	2	3	2	2
6206	Sebacic acid, diethyl ester	2	3 2 2 4	2 3 3 3 2 4	5 5 5
6210	Sebacic acid, dimethyl ester	2 2 3 2 2 2 2	2	3	2
6218	Sesamin concentrate	3	14	3	7†
6261	Sorbitol triacetal	2	4	2	4
6277	Stearic acid, amyl ester	2	2	14	2
6288	Stearic acid, ethyl ester	. 2			2 3 2 2
6314	2-Styryl-5,5-dimethyldioxane-1,3	2	3	3 4	2
6314a	2-Styryl-4,4,6-trimethyldioxane-1,3	2 14	2	2	2
6716		2	٥	2	2
6316	Suberic acid, diethyl ester	2	2 3 2 2 14		_
6318	Succinic acid di manual agter	7	2	2 14	2
6321	Succinic acid, di-n-anyl ester		_		٦ 5
6328	Succinic acid, dicyclohexyl ester	2	2	3	2
6329	Succinic acid, dicyclopentyl ester	2	_	7	_

Table 1 (Continued)

Item			flies		
No.	: Chemical	Knock-do	wn:Kill:Ki	nock-dow	n:Kill
6334	Succinic acid, di "HTP" ester	2		2	3234222434
6337	Succinic acid, di-2-methyl-1-butyl ester	4	2	2	5
6338	Succinic acid, dioctyl ester	2		2	3
6339	Succinic acid, di-(2-octyl) ester			2	Ĺ
6339 6340	Succinic acid, di-4-penten-1-yl ester	2 2 3 2 2	2	2	2
6341	Succinic acid, di-2-pentyl ester	7	2	9	2
6342		2	2 2 2	2	2
6742	Succinic acid, di-3-pentyl ester	2	2	Ϋ́	1
6348	Succinic acid, monallyl ester	۷	ے		4
6349	Succinic acid, mono-sec-butyl ester	2	2	74	5
6351	Succinic acid, mono-2-methoxyethyl ester	r 2		4	4
6353 6354	Succipic acid, n-propyl hydrogen ester	2	2	7	4
6354	Succinic acid, iso-propyl hydrogen ester	r 2		3 14	4
6359	Succinonitrile	2	2	4	2
6364	Sulfapyridine	2	74	7	2
6379	d-Tartaric acid	2	14.	2	2
6385	Tartaric acid, diethyl ester	2 2 2 2 2 2 2	,	7	2
6391	· · · · · · · · · · · · · · · · · · ·	2	2 3 2 2	2	2
6771	c-Terphenyl	2	2	~	2
6392	m-Terphenyl	2	2	2	2
6403	Terpinyl triethylene glycol ether	2	2	3	3
6412	Tetrachlorocumene	2		32323333	4422222333
6423	2-(2-(2,4,5,6-Tetrachlorophenoxy)	2	3	3	3
	ethoxy)ethyl chloride				
6429	alpha, alpha, alpha-4-Tetrachlorotoluene	2	3	2	2
6441	Tetraethylene glycol	2	3 2	3	2
6442	Tetraethylenepentamine	2	-	3	2 2 3 2 2 2
9444	Tetraethylthir am monosulfide	2	7	2	2
		2	3 2	2 3 4	2
6445	2,3,4,5-Tetrahydrobenzophenone		2	ې	2
6448	Tetrahydrofurfural glyceryl acetal	3	3		
6452	Tetrahydrofurfuryl butyl ethylene glycol	1 2		7+	JÌ
	ether				
6456	Tetrahydrofuroic acid, n-butyl ester	2		3 2	5
6458	beta-Tetrahydrofurylpropionic acid,	2	2	S	3
	n-amyl ester				
6459	Tetrahydrogeranic acid	2		4	2
6459a	1,2,3,4-Tetrahydro-6-naphthaldehyde			4	2
6463	1,2,3,4-Tetrahydro-2-naphthol	5 5 5			2 3 2 4
6464	5 6 7 C Mot mohadan 2 nombthal	2		2 3 4	2
6467	5,6,7,8-Tetrahydro-2-naphthol	2	0	2	) i
6401	4-(1'-Tetrahydronaphthyl)butanol-l	2	2	ج	4
6471	beta-(1,2,3,4-Tetrahydro-5-naphthyl)ethe	anol 2	2		
6478	1,2,3,6-Tetrahydrophthalic acid,	2		2	7
	mcnoallyl ester				
6486	alpha-Tetralol	2		2	4
6493	2,4,7,9-Tetramethyl-5-decemediol-4,7	2 14	2	<b>并</b>	4
6494	2,4,7,9-Tetramethyl-5-decynediol-4,7	4	2	4	4
6495	N, N-Tetramethylenesuccinamic acid, n-	2	2	14	2
	propyl ester	_			_
6498	Tetramethylthiuram monosulfide	2	2	2	4
6499	Tetranylbenzene	2	2	4	
6504		2	2	7	2
0704	Tetra-n-propyl ethylene glycol	2		4	)

Table 1 (Continued)

	1 (Continued)				
Item			use flies		
No.	: Chemical	:Knoc	k-down:Kil	1: Knock-d	lown: Kill
6506	Thanite (thiocyanoacetic acid, mixture	of·	3 3	并	2
	fenchyl and iso-bornyl esters)				
6517	p-Thiocyanodimethyl aniline		2 2	Ţŧ	2
6519	Thiocyanic acid, amylbenzyl ester			3	2
6524	Thiocyanic acid, 3-(2-cyclohexylphenoxy)		3 2	2	2
	propyl ester				
6525	Thiocyanic acid, n-decyl ester		4 2	14	2
6527	Thiocyanic acid, n-dodecyl ester		3 2 2 2	7+	2
6528	Thiocyanic acid, n-hexadecyl ester			3 3 . 3 . 4	2
6530	Thiocyanic acid, lauryl ester		2 2 2 2	3	3
6537	Thiocyanic acid, n-octadecyl ester		2 2	3	2
6540	Thiocyanic acid, n-tetradecyl ester		2 2	. 3	2
6541	Thiocyanic acid, triglycol diester		2 2		3
6545	Thiodiglycol		2	并	2 3 2 2 3 3 4
6556	Tiglic acid, benzyl ester		2 3	并	
6557	Tiglic acid, phenethyl ester		2 3	并	并
6599	alpha-Toluic acid, acetonyl ester		2 2	计	2
6604	alpha-Toluic acid, 2-hydroxypropyl ester			4	4
6610	o-Tolylacetic acid, benzyl ester		2 2	4	
6611	p-Tolyl allyl sulfone		2 2	14	2
6612	m-Tolyl p-anisyl other		2	7†	3
6614	p-Tolyl benzyl ether		2 4	14	ź
6617	o-Tolylcyclohexanol-2		4 2	14	323222343334
6620	p-Tolyl-alpha, alpha-dimethylol allyl sulf	fone	2 2	14	ź
6622	p-Tolyl beta-hydroxyethyl sulfone		2	4	2
6630	p-Tolyl phenyl methane				2
6637	s-Triallyltrimethylenetriamine		2 2 2 2	3 3 2	3
6640	Tribenzylamine		2 2	ź	14
6646	Tributenylamine		2	<u> </u>	3
6647	Tributenylamine polymers		2	14	7
6651	Trichloroacetic acid, n-butyl ester		2	2	7
6662	1-Trichloro-2,2-bis(p-bromophenyl)ethane		2 4	2	Ĭi.
6667	1-Trichloro-2,2-bis(nitrotoly1)ethane		2 2 4 2 3	3	2
6685	Trichloroethylideneacetoacetic acid,		2	2	3
000)	ethri ester	,	bano	to.	
6708	Tricyclo-(4.0.3.12.5)decanone-4		2 3	2	7
				2	3
6709	Tricyclo-(4.0.3.1 <sup>2.5</sup> )decen-8-ol-4 (exo)		2	2 3 4 4	3
6711	Tridecene-6		2	2	4
6714	Triethanolamine		2 2 2	3	2
6720	Triethylene glycol		2 2	4	2
6723	Triethyl pyrogallol ether		2 2 2 2 2 2 2 2 2 2 2 2 2 3 3	4	34223322
673 <b>1</b> 6736	2,3,4-Trimethoxyacetophenone		2	并	3
6736	2,4,6-Trimethylbenzoic acid, butyl ester		2	3	2
6737	2,4,6-Trimethylbenzoic acid, beta-		2 3	4	2
	chloroethyl ester				
6738	2,6,6-Trimethyl-2,3-bicyclo-(3.1.1)-		2 2	2	3
	heptanediol				

Table 1 (Continued)

Item		Found	flies :	Moomi	tone
			wn:Kill:		
No.	Chemical :	Anock-do	MITERITIES	THOCK-GO	WII: All.
(7=0	m m m mut aki a a a labara a a lab	0	0	7	0
6739	3,3,5-Trimethylcyclohexanol-l	2	2	3	5
6754	2,4,8-Trimethyl-4,6-nonanediol	2	_		74
6808	Turpentine	2	3	2	2
6810	Tween 20 (polyoxyalkylene derivative of	2		4	3
	sorbitan monolaurate)				
6815	Tween 81 (sorbitan monooleate polyoxy-	2		3	2
	alkylene derivative)				
6816	Tween 85 (sorbitan trioleate polycry-	2		24	2
	alkylene derivative)				
6820	Undecalactone	2	2	14	2
6821	1,2-Undecanediol	2	2 3	4	)i
6822	4,6-Undecanediol	2	7		2
6828	Undecylenic acid (pure)	2	2	3	2
6831	Undecylenic acid (head fraction #3)	2 2 3	2		5 5 5 5
6832	Undecylenic acid (tail fraction)	5	2	3	2
6077		7	2	14	1:
6833	Undecylenic acid, dimethylethynyl	)	6	4	45
Cana	carbinyl ester	0		14	G
6838	10,11-Undecylenol-1	2	**	14	2 2 2 4
6839	n-Undecylic acid		3		2
6854	Valeric acid, 1,4-butanediol diester	2 2	3	并	2
6855	Valeric acid, 1,4-butanediol monoester	S	_	4	17
6859	iso-Valeric acid, dodecyl ester	2	2	并	2 3 2 2 2 3 3 4
6860	Valeric acid, ethyl ester	2	2	2	3
6864	iso-Valeric acid, lauryl ester	2	2	4	2
6866	iso-Valeric acid, pentamethylene diester	2	2	14	2
6867	Valeric acid, pentanediol-1,5-diester	2		4	2
6869	Valeric acid, 1,2-propanediol diester	2		4	3
6870	iso-Valeric acid, 1,2-propanediol diester	2 2		4	3
6871	Valeric acid, 1,3-propanediol diester	2	3	4	4
6874	Valeric acid, 1,2-propylene glycol	2		3	2
	monoester				
6875	iso-Valeric acid, 1,2,3,4-tetrahydro-2-	2		4	2
0015	naphthyl ester	_		•	-
6876	iso-Valeric acid, 2,2'-thiodiethanol	2		14	4
0010	diester	E.,		7	7
6877		2	7	2	2
	iso-Valeroacetic acid, isobernyl ester	2	3 2 2	2	2
6880	iso-Valeroylacetic acid, cyclohexyl ester	2 2	2		2
6885	Vanillic acid, ethyl ester	5		ļ.	2
6902	o-Veratric acid	2	3	2 3 2	2 2 2 2 3 34
6904	beta-Veratrolpropionic acid, ethyl ester	2		3	3
6905	Veratroylacetic acid, ethyl ester	2			3
6910	gamma-Vinyl-alpha-carboethoxy-	2		2	4
	butyrolactone				
6911	gamma-Vinyl-alpha-carbomethoxybutyrolacto	one 2		4	2
6913	2-Vinyl-5-ethyl-5-nitro-m-dioxane	2		计	3

Table 1 (Continued)

Item No.			flies : wn:Kill:K		
6916 6922	2-Vinyl-5-methyl-5-nitro-m-dioxane Wetsit-W-1235 (alkylated aromatic sulfonate)	2	2	)† j‡	3 2
6945 6947 6948	Wood distillation, neutral oil (V-184-E Wood tar distillate, soluble (S-101-B-M Wood tar distillate, soluble (S-101-B-F	L) 2	5 jt	2 4 2	3 4 4
6949 6950 6985	Wood tar distillate, soluble (S-101-B-2 Wood tar distillate, soluble (S-101-B-6 gamma-p-Xylylbutyric acid, ethyl ester		3 2 3	5 7 5	3 4 3
7055	(See Item No. 6088a)				

Table 2.—Item numbers of compounds falling in class 2 or a combination of classes 1 and 2. See E-733 for names of compounds.

	Item:		Item						Item		Item	Item		Item
No.:	No.:	No.:	No.	:	No.	•	No.	:	No.	•	No.	No.	:	No.
2	3.07	007	462		630		7117		064		3.003	3.007		1 7 5 0
2	103	223 224	463		618 620		743		968 969		1083	1227		1352
3	107	229	468		623		748		970		1086	1231		1354 1358
7	108	230	471		627		754		971		1088	1233		1359
14	111	234	472		628		775		972		1090	1236		1360
16	112	238	494		630		780		975		1093	1238		1361
19	114	241	495		631		783		977		1110	1239		1366
22	116	5,148	496		632		788		978		1111	1240		1367
23 24	117	253	497		634		791		981		1113	1241		1368
	119	255	498		639		802		982		1121	1242		1369
27	120	256	500		640		810		984		1124	1251		1370
28	127	264	501		642		811		985		1125	1256		1372
29 40	128	271	503 504		646 653		818 823		986 987		1128	1260		1373
41	130 131	273 283	505		656		824		995		1132	1262		1376 1380
43	135	284	506		661		858		1004		1136	1263		1381
47	137	286	507		664		870		1008		1147	1266		1388
)†8	138	287	509		665		882		1010		1150	1267		1400
50	139	300	517		667		883		1013		1155	1272		1403
51	139 144	325	519		669		886		1015		1156	1283		1404
55	153	326	520		670		887		1021		1162	1293		1407
59 60	156	329	521		672		888		1022		1164	1294		1410
62	157	330	523		673 676		890		1026		1165	1295		1412
67	159	336	525		680		891		1028		1167	1299		1417 1422
63 65	165 168	339 347	528 53 <b>0</b>		683		893 902		1032		1169	1302 1307		1457
69	169	354	532		684		903		1041		1170	1310		1425
70	170	356	533		685		905		1042		1176	1311		1426
71	181	363	535		687		906		1047		1184	1312		1429
77	185	366	535 536 540		688		907		1048		1185	1315		1430
78	186	367	540		693		909		1050		1189	1316		1435
79	192	368	551		696		925		1055		1190	1317		1436
83	201	375	557		701		926		1057		1191	1320		1440
85 86	205	377	562		702		930		1058		1192	1325		1445
87	211	380	573		703 711		936		1062		1194	1329		1453 1454
91		38 <b>1</b> 383	579 584		712		937		1063 1064		1201	1331		1454
92	213 214	389	585		720		939 940		1065		1203 1206	1332		1456 1465
	215	389 410	592		722		945		1066		1208	1333 1334 1340 1341		1466
93 94	217	427	596		725		950		1070		1209	1340		1468
95	218	448	596 601		726		951		1072		1211	1341		1471
97	219	456	604		731		952		1074		1213	1343		1472
101	221	457	612		739		959		1075		1224	1343 1344		1475
102	222	457 461	613		739 742		965		1079		1225	1348		1476

Table 2 (Continued)

						in all or the section										
				: Item										Item		
No.	: No	. 0	No.	: No.	ç	No.		No.	0	No.	9	No.	:	No.	0	No.
				n aml.		0076		0366		2272		0770		0507		2648
1477	1560		1709	1874		2036		2166		2272		2378		2507		
1479	1561	-	1710	1876		2037		2167		2273		2392		2508		2659
1480	1566		1715	1877		2039		2168		2274		2394		2509		2660
1481	1571		1721	1878		2040		2169		2275		2395		2520		2665
1482	1572	2	1723	1882		50/1/1		2170		2279		2396		2521		2666
1483	1582	2	1727	1883		2045		2172		2280		2397		2531		2668
1484	1590	)	1728	1890		2047		2174		2281		2403		2534		2669
1485	1591	ļ.	1737	1898a		2048		2177		2585		5/110		2538		2673
1486	1597		1738	1898f		2052		2179		2296		2412		2540		2678
1487	1598		1741	1899		2056		21.82		2297		1413		2547		2679
1489	1600		1743	1901		2058		5186		2298		2414		2549		2681
1491	1602		1744	1910		2060		2188		2301		2415		2550		2685
1492	1603		1745	1914		2068		2191		2304		5,150		2551		2686
1493	161		1747	1922		2069		2192		2306		2421		2552		2690
1494	1612	2	1748	1.927		2080		2193		2307		2423		2556		2694
1495	161		1760	1928		2081		2196		2308		5,156		2557		2695
1496	161		1762	1935		2083		2198		2309		2432		2558		2696
1499	161		1768	1937		2086		2199		2310		2433		2559		2702
1502	1618		1775	1939		2087		5501		2317		5/1/10		2560		2703
1505	1619		1781	1944		2088		2204		2323		5,4146		2563		2704
1506	162		1787	1945		2089		2207		2324		2447		2565		2706
1508	162		1790	1948		2095		2210		2328		5448		2566		2710
1514	162	5	1791	1951		2097		2211		2330		5/1/19		2577		2712
1515	1628		1792	1953		5107		2213		2331		2450	j	2578		2713
1516	1629	9	1794	1969		21.05		2215		2333		2451		2581		2715
1517	163		1795	1971		2108		2218		2337		2455	}	2585		2717
1519	163		1796	1972		2108		2219		2338		2457		2589		2719
1520	164	5	1805	1975		2110		2220		2339	ļ	2458		2596		2720
1522	165	1	1812	1980		211		5557		2342		2465		2598		2725
1523	165		1813	1981		211		2226		2345		2466		2599		2731
1524	165		1816	1984		2115		2229		2348		2472		2600		2734
1525	165		1318	1989		211		2230		2349		2471		2606		2736
1531	165		1819	1993		211.		2233		235]		247		2612		2743
1534	166		1821	1994		212		2231		2358	-	247	) a	2615	2	2744
1537			1824	1995		212		2235	5	2358	)	2478	5	2617		2762
1537 1540	166		1826	1996		212		2237		235		247	7	2620		2774
1542	166		1832			213	0	55/1	3	236	L	248		2623		2780
1544	166		1848	2003		214	2	224	2	236	2	248		2625		2783
1545	167		1849			214	3	2246		236	3	248		2629	1	2788
1546	169	0	1850			214		225	2	236	+	248		2638	2	2789
1548	169	4	1852			215	3	226		236	7	249	1	2638	5	580/1
1551	169	5	1854	_		215	6	226	2	237	1	249	2	2639	9	2806
1552			1858			215	7	226		237		249		264		2807
1553			1862			215		227		237		250	4	264	2	2815
			1873			216	5	227	1	237	6	250	5	264	3	2821
1559	-10	0		))												

Table 2 (Continued)

Item No.	: Item : No.							Item: No::	
2822 28306 28369 28349 28349 28349 28349 28349 28355 28355 28355 2835 2835 2835 2835 2	2946 2947 2948 2958 29560 2961 2961 2961 2961 2961 2999 2999 2999	* No. 3062 3064 3069 3075 3086 830996 3099	3238 3236 3236 3236 3236 3276 3277 3289 3299 3299 3300 3300 3300 3300 3300 330	33440560787258126602902349958125669134734578902333333333333333333333333333333333333	No. 2 354456 35544757377256899017803561793466228903556899129656286 3562633355689901780356622890356833366667886 366263335663333366667886 366886868686868686868686868686868686868	3687 3687 3712 3716 3712 3712 3712 3712 3712 3712 3712 3712	3842 3847 3849 3847 3849 3857 3857 3857 3857 3857 3857 3857 3857	4019 4023 4024 4026 4029 4035 4035 4035 4041 4053 4067 4068 4069 4068 4079 4091 4091 4091 4091 4091 4091 4096	No.  4144 41557 41602 41697 41697 41697 41694 41906 4197 41206 41217 41206 41217 41206 41217 41206 41217 41206 41217 412

Table 2 (Continued)

Table 2 (Continued)

Item: No.:				Item:					
5676 5677 5688 5697 5741 5749 5775 5775 5775 5775 5776 5778 5778 5778	55555555555555555555555555555555555555	5972 5974 5988 59988 59999 59999 59999 59999 59999 59999 60013 60022 60023 60055 6005 60055 60055 60055 60055 60055 60055 60055 60055 60055 60055 6005	6064 6070 6071 6076 6080 60994 60995 61007 61112 61121	6155 6156 6156 6166 6170 6171 6175 6177 6178 6182 6187 6189 6198 6204 6208 6208 6257 6258 6274 6278 6291 6317	63190 633235 633233660633555821 633333660633555821 633333660663338899083324455506686647790124884 6448845566646644884	6487892 648892 648892 6550001231582 6555555555777789987831522488914	66552 66552 666553 666666666666666666666	67591 67591 67591 6766666666666666666666666666666666666	6865 6868 6873 6887 6887 6887 6897 689

